

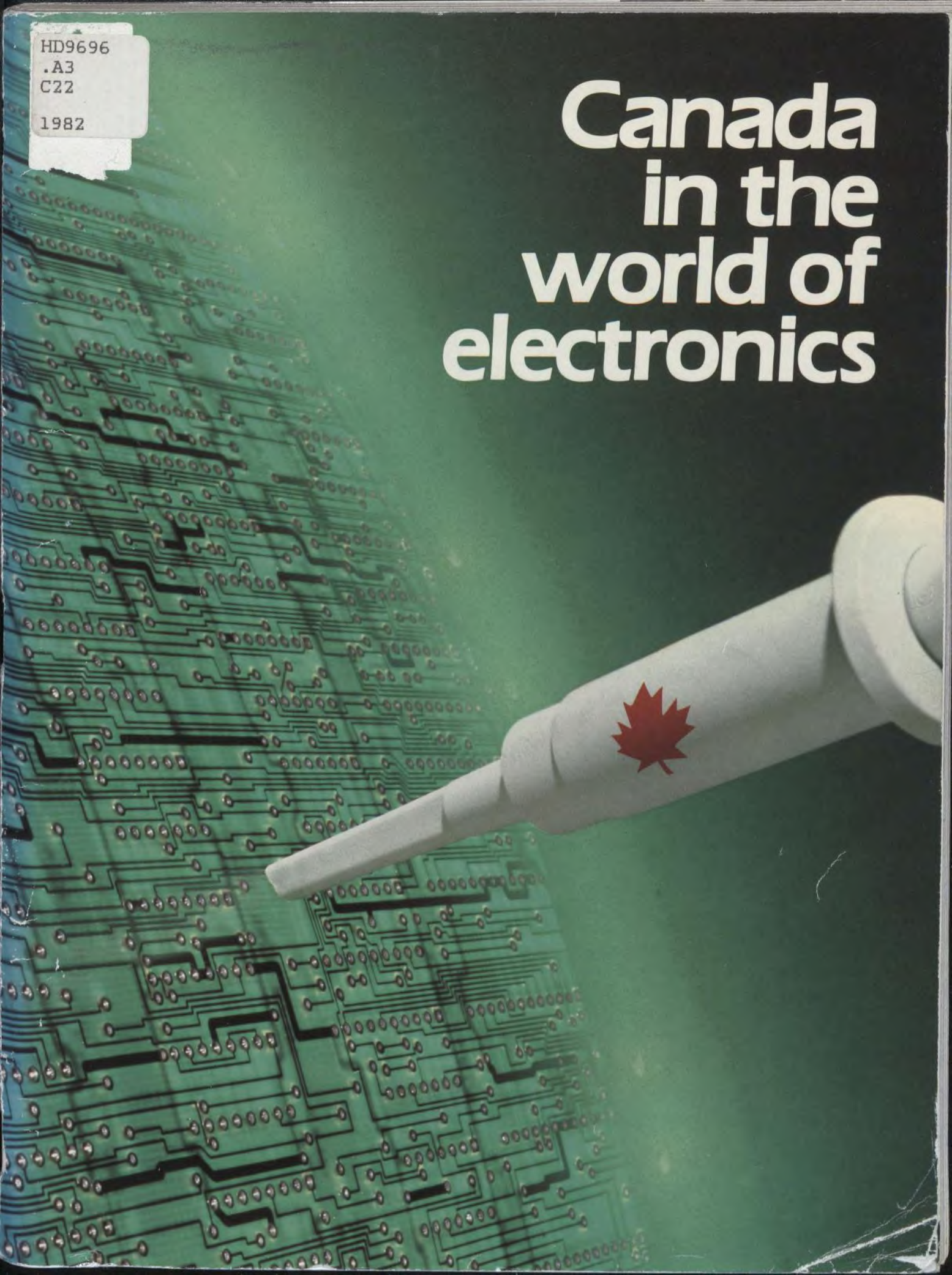
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1982

Canada in the world of electronics



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VC4152
VT52 Compatible

VC414H
Hazeltine
Compatible

VC4404
The CHAT

VC415APL
For APL users

VC3100
ANSI
Compatible

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Telex: 069-55327

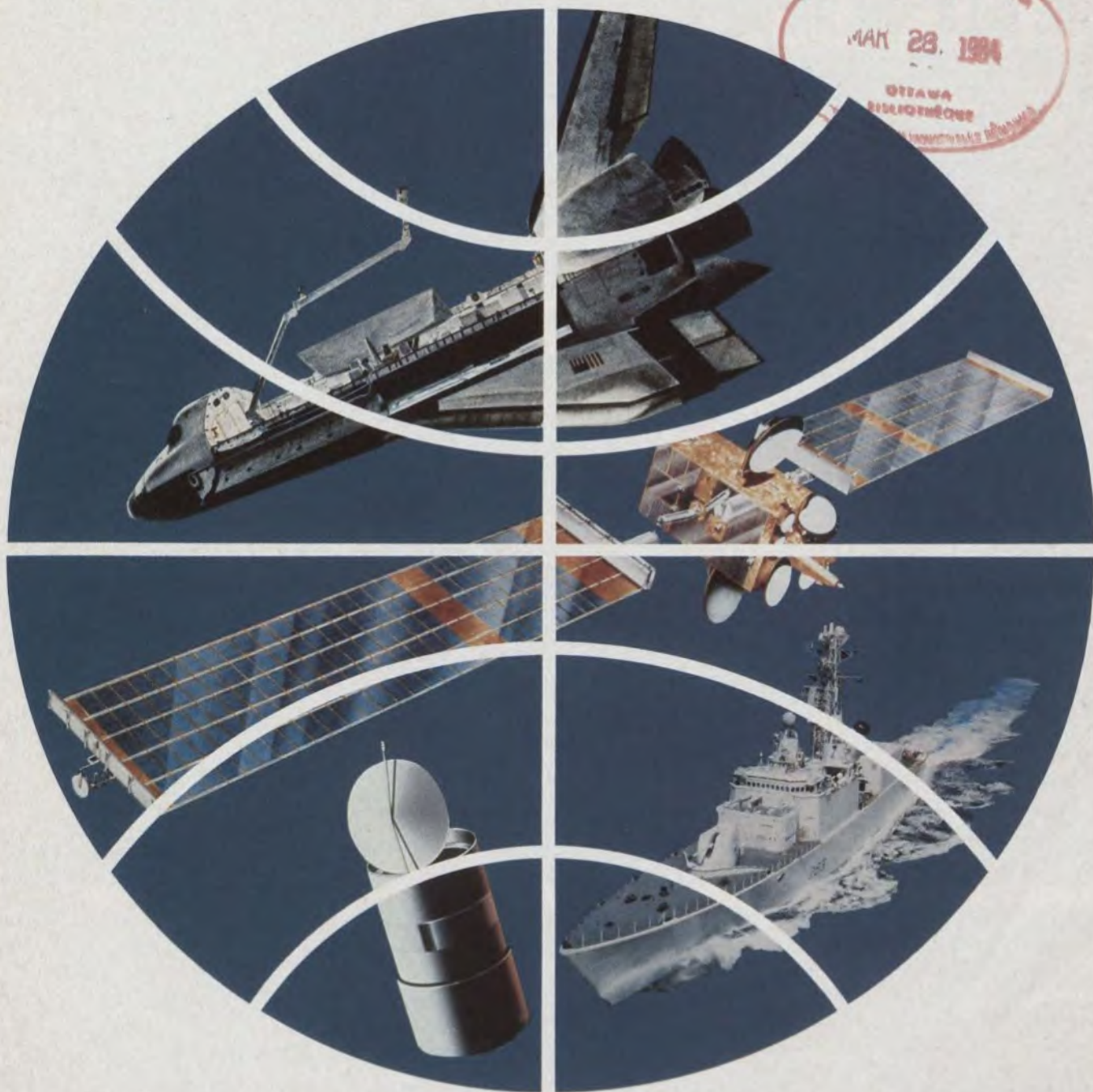
volker-craig inc.

333 Metro Park
Rochester, New York, USA 14623
(716) 475-1221

volker-craig (UK) limited

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The remote manipulator arm successfully tested on the spaceship Columbia has shown Spar to be in the forefront of space technology. This same technology and experience is being applied daily to the design of satellites, their subsystems, shipborne surveillance systems for defence and high technology products for every day use in commerce and industry. Spar has achieved a worldwide reputation for excellence.

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Farinon

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Most people know us for our low and medium capacity analog and digital microwave products. However, we also have a wide range of engineering, and technical support services.

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At Farinon, our blend of products and services backed-up by wide customer acceptance in Canada and abroad has made us today, the largest Canadian supplier of low and medium capacity microwave radios.



For more information please call or write to:

Harris Corporation, Farinon Division

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9705-B Horton Road S.W., Suite 204, Calgary, Alberta T2V 2X5 • Tel: (403)259-2429 • Twx: 610-821-2754

Farinon, part of the high technology family called



Canada in the world of electronics

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Contents

The Industry	5
Company Listings	19
Manufacturers	20
Consultants	71
Cross Index	79
Equipment	80
Components	89
Advertisers Index	91

For further information about Canada's electronics industry please contact Electrical and Electronics Branch, Department of Industry, Trade and Commerce, Ottawa, Canada K1A 0H5.

IF YOU USE CUSTOM HYBRID MICROCIRCUITS, GARRETT WANTS TO PRODUCE THEM.

GARRETT MANUFACTURING, LTD.

Manager, Microcircuit Sales
Garrett Manufacturing, Ltd.,
255 Attwell Drive, Rexdale
Ontario, Canada M9W5B8
(416) 675-1411

OBJECTIVE:

We want to produce your custom, thick or thin film hybrid microcircuits for use in military/aerospace navigation, communication, guidance and control systems.

EXPERIENCE:

Garrett is one of the world's top producers of custom military/aerospace hybrid microcircuits. We employ highly sophisticated B+ technology. And we meet the toughest quality specs:
MIL-STD-883B
MIL-M-38510D

REFERENCE:

United States Military:

Missiles: Chaparral
Phoenix
Shillelagh
AMRAAM

Aircraft: F-15
F-16
F-18

Communications: Vinson

Other Applications:

Satellites
Ground Radar
Tanks
Torpedoes

Garrett's Custom Microcircuits



The Garrett Corporation
One of The Signal Companies

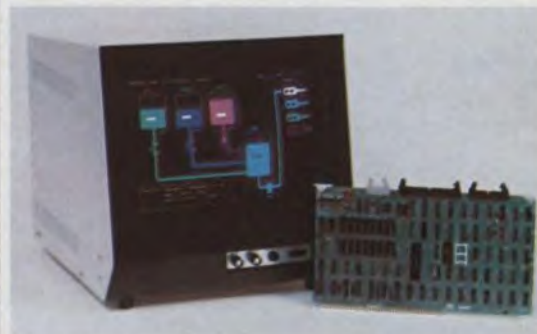
The Industry

Canadian-made electronics equipment is in use all over the world. In the forefront in many areas of modern technology, the Canadian electronics industry manufactured over C\$3 billion worth of parts and systems in 1981. The following pages show a sample of the skill and diversity of a technically advanced industry dedicated to serving world markets.





Canada's vast distances encourage considerable skills in terrestrial microwave communications. Many microwave networks exist with some running from coast-to-coast. Canadian companies in consortium are a major source of microwave systems such as the ITU Panafel network in West Africa.



Generating colour alphanumerics is the specialty of Matrox Electronic Systems Ltd.



Audio consoles manufactured by Ward-Beck Systems Ltd. are in use in radio, television, and film production in many countries.



Crucial to the success of the US Space Shuttle program is the Canadian Remote Manipulator System for moving payloads from the spacecraft, shown here in space with the earth above. It was manufactured by Spar Aerospace Limited of Toronto under contract to Canada's National Research Council. The advanced robotics technology used is now being applied in other fields. Spar is the prime contractor for Canada's new Anik D satellites. (Photo NASA).



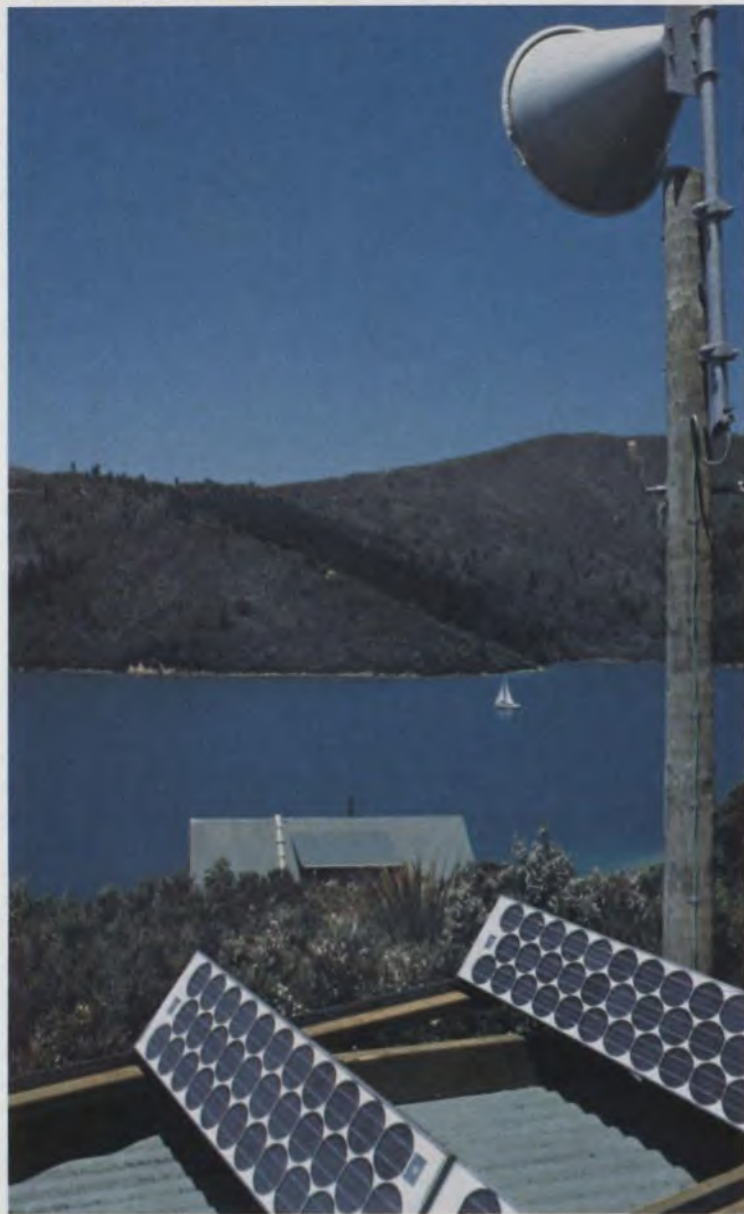
In production for helicopter manufacturers is this ice detection system by Leigh Instruments Limited.

A wide range of features is possible with Glenayre Electronics' radio telephone control head. Geography makes Canada a heavy user of mobile communications.



Flight simulators for many of the world's airlines, aircraft manufacturers, and defence forces are supplied by CAE Electronics Ltd. The company builds about one third of the world's commercial jet aircraft flight simulators.

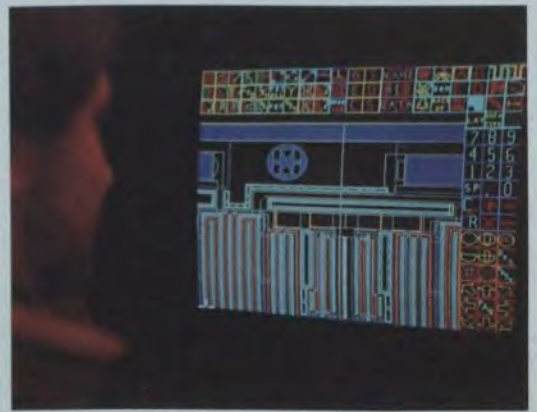
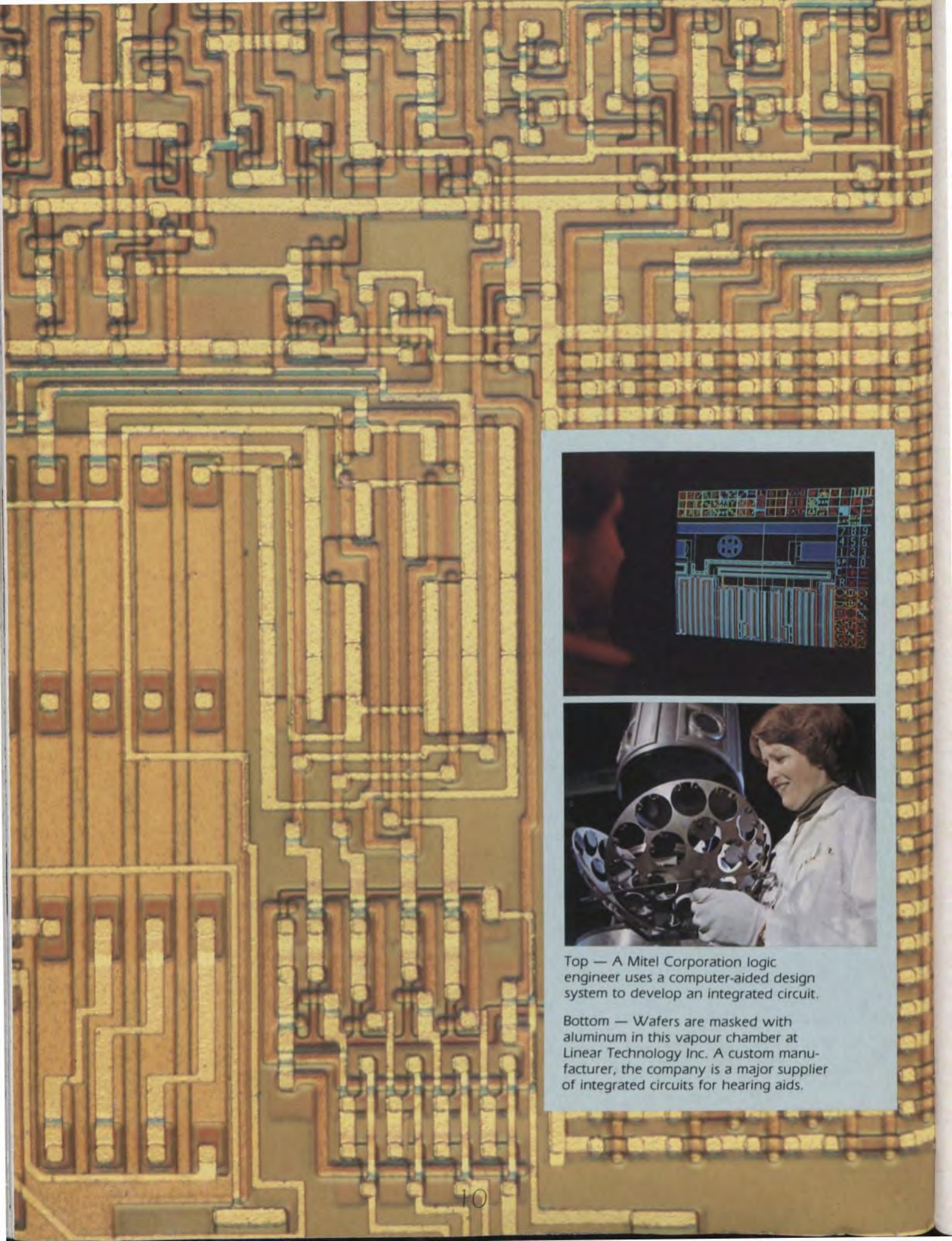
Canadian telecommunications skills are at work worldwide. Here a solar powered SR Subscriber radio system from SR Telecom Inc. connects scattered areas in a remote part of New Zealand's South Island.



Electronic controls for heavy-duty industrial drive motors (Lloyd Controls Ltd.)



With 1700 people directly involved in research, a third of whom have post-graduate degrees, Bell-Northern Research in Ottawa is Canada's largest privately owned R & D organization.



Top — A Mitel Corporation logic engineer uses a computer-aided design system to develop an integrated circuit.

Bottom — Wafers are masked with aluminum in this vapour chamber at Linear Technology Inc. A custom manufacturer, the company is a major supplier of integrated circuits for hearing aids.

An innovative new technique uses lasers for printing on various materials. Lumonics LaserMark® portable marking system is for applications in product and package marking.



Aviation Electric manufactures this land navigation system for armoured vehicles.





Wide application of process control in Canadian industry is served by equipment like this Operator Interface Unit by Bailey Engineering Ltd.



Continuity testing in live circuits can be made with this device from Securatest Manufacturing Ltd.



Top — A large number of Projected Map Systems, of which this display is a part, have been supplied by Computing Devices Company. Bottom — A central control system for a public utilities system designed and manufactured by Tracan Engineering Ltd.



Growing markets for telephone equipment are supplied by many Canadian manufacturers. This Siemens PABX (far right) handles 192 extensions and up to 42 trunks.



Office automation is receiving special attention by the Canadian electronics industry. A wide range of products, like this word processor from AES Data Ltd., are already available.



Northern Telecom's DMS-10, one of a family of digital switching systems now in wide use. Left - Making optical fiber at Northern Telecom's new plant in Saskatoon, Sask.



Telidon terminals under test at Viscount Industries Limited, a subsidiary of AEL Microtel.



Equipment for Canada's important Telidon technology is a growing part of the industry. Norpak's Information Provider System for making Telidon pages (right) is complemented by the company's graphics generating computer (left).



In the forefront of satellite communications technology, and a pioneer in communication satellites, Canada will launch five new communication satellites between 1982 and 1985. They will join the four Anik satellites that are now in geostationary orbit, operating with over 100 earth stations.



Flat panel displays, made up of large numbers of micro-miniature light emitting diodes, have been developed by Litton Systems Canada Ltd.




Video terminals for the data processing industry (Cybernex Limited).




This isolator by Positron Industries Inc. provides protection for communication wire lines entering power stations.

For exploration in remote areas Canadian Marconi Company makes this portable satellite navigation system which has positioning accuracy to within a few metres.






Canada is in the forefront of remote sensing technology. This view from the Landsat satellite was produced on a Colour Image Recorder from Imapro Inc. It shows the city of Vancouver (top centre) and the city of Victoria at the south-east tip of Vancouver Island (centre).



Equipment from Scintrex Ltd. for locating ore bodies. Left, the transmitter portion of a low frequency electromagnetic system.

Right, a microprocessor-based induced polarization receiver for earth conductivity measurements.



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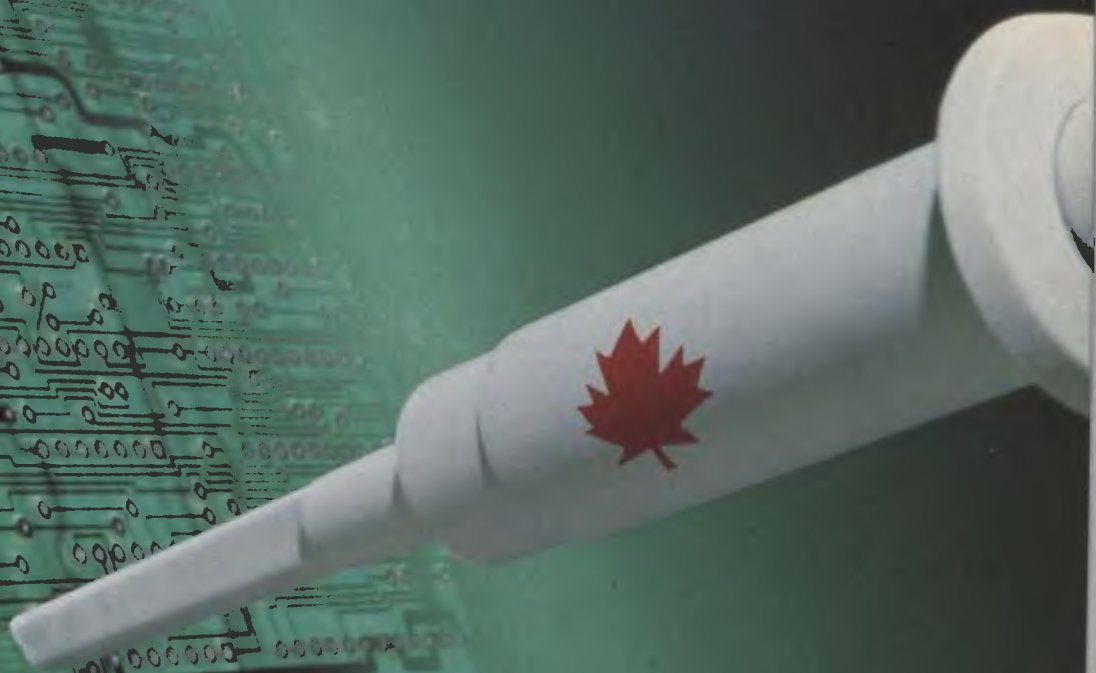
For more information contact:

ADAPTIVE MICROELECTRONICS LTD.

33 Glen Cameron Rd.,
Unit 2, Thornhill, Ontario, L3T 1N9
Telephone: (416) 881-4112
Cable Address: ADMICL Tor
Telex 06 986766 Tor



Company Listings



MANUFACTURERS

A

Canada in the world of electronics

A.E.I. TELECOMMUNICATIONS (CANADA) LTD.

419 Notre Dame Avenue
Winnipeg, Manitoba, Canada
R3B 1R3
Tel: (204) 942-7221
Telex: 07-57588
TWX: 610-641-9534
Cable: ASSOCELECT
WINNIPEG

Products: automatic number identification (ANI) equipment for use on step-by-step or crossbar telephone switching systems; emergency reporting system (ERS) for 911 or any other emergency number.

AEL MICROTTEL LTD.

108 - 4664 Lougheed Highway
Burnaby, British Columbia,
Canada
V5C 5T5
Tel: (604) 294-3274

Switching and Subscriber

Products — electronic (digital and analog) telephone switching equipment, private automatic branch exchanges (PABX's); key telephone equipment; secretarial answering units; telephones of all types; enterphone systems (building security control); engineering, furnish, installation and training services.

Transmission Products — microwave systems, engineering, furnishing and installation of complete communication systems including civil works, towers, power, etc.

Business Information System

Products — Telidon videotex terminals; combined color graphic Telidon and ASCII display terminals.

Control Devices Division

Products — computerized energy-management and control systems for power utilities plus residential alarm systems for telephone companies.

AES DATA LTEE/LTD.

100 Alexis-Nihon Boulevard,
Suite 600
Ville St. Laurent, Quebec, Canada

H4M 2P2
Tel: (514) 744-6711
Telex: 05-826602

Products: stand-alone word processing systems with editing video screen, electronic keyboard, single or dual diskette storage unit, microprocessor control unit, and automatic high-speed printer; optional communication capability.

ATC MANUFACTURING LTD.

P.O. Box 220
202 Regina Street North
Waterloo, Ontario, Canada
N2J 3Z9
Tel: (519) 885-4510

Products: laminated iron-core transformers.

AANDERAA INSTRUMENTS LTD.

560 Alpha Street
Victoria, British Columbia, Canada
V8Z 1B2
Tel: (604) 386-7783
Telex: 049-7390

Products: water-level recorder; oceanographic instrumentation.

Services: data translation services, calibration facilities for oceanographic instruments.

ABROYD CONSTRUCTION

68 Shirley Avenue
Kitchener, Ontario, Canada
N2G 4A6
Tel: (416) 823-7411
(519) 744-2291
Telex: 069-55284

Products: communications equipment; antennas and accessories.

ACME ENGINEERING PROD. LTD.

5706 Royalmount Avenue
Montreal, Quebec, Canada
H4P 1K5
Tel: (514) 342-5656
Telex: 055-60546

Products: carbon monoxide and carbon dioxide detection and control units and systems.

ADAPTIVE MICROELECTRONICS LTD.

33 Glen Cameron Rd., Unit 2
Thornhill, Ontario, Canada
L3T 1N9

Tel: (416) 881-4112
Telex: 06-986766 Tor

Products: Computerized security and energy-management controls system with full-color graphics display.

AERO AQUA INC.

850 Magnetic Drive
Downsview, Ontario, Canada
M3J 2C4

Tel: (416) 661-5960
Telex: 065-24747

Products: meteorological instrumentation, including Minisonde system and self-contained remote weather station (MATER).

AHEARN & SOPER LTD.

100 Woodbine Downs Boulevard
Rexdale, Ontario, Canada
M9W 5S6

Tel: (416) 675-3999
Telex: 06-965770

Products: interactive terminals, word processors.

AIRCRAFT APPLIANCES & EQUIPMENT LTD.

152 East Drive
Bramalea, Ontario, Canada
L6T 1E1

Tel: (416) 791-1666
Telex: 069-7540
TWX: 610-492-4396

Products: tachometer generators; voltage regulators, filters, strainers, coalescers, water separators for hydraulics, oil, fuel, gasoline etc.; auxiliary power units, gasoline-engine and diesel-engine-driven generator sets to 60 kW.

ALLEN-BRADLEY CANADA LTD.

135 Dundas Street
Cambridge, Ontario, Canada
N1R 5X1

Tel: (519) 623-1810
Telex: 069-59317

Products: relays, including electro-mechanical; starters, timers, contactors, pilot devices, switches.

ALMA INDUSTRIES LTD.

61 Needham Street
Lindsay, Ontario, Canada
K9V 4Z7

Tel: (705) 324-5100

Products: piezoelectric ceramic element for sonobuoys; sonar and depth-sounding devices; piezoelectric ceramics for ultrasonic applications; ultrasonic generators; microwave filters; powders for piezoelectric ceramic fabrication; special application ceramics; high-purity and high-density alumina ceramics.

alphaNUCLEAR CO.

6380B Viscount Road
Mississauga, Ontario, Canada
L4V 1H3

Tel: (416) 676-1364
Telex: 06-983611

Products: instrumentation for the exploration, geophysics, mining and environmental monitoring industries, particularly relating to uranium and its decay products.

AMBER ELECTRO DESIGN INC.

4810 Jean Talon West
Montreal, Quebec, Canada
H4P 2N5

Tel: (514) 735-4105

Products: test, laboratory and measuring equipment, including signal generators, spectrum analyzers, dB meters, distortion meters and plotters; frequency counters.

AMERACE LTD.

10 Esna Park Drive
Markham, Ontario, Canada
L3R 1E1

Tel: (416) 475-6000
Telex: 06-986807
Cable: AMERACE MHKM-TORONTO

Products: timing devices — electro-pneumatic and solid state; airport lighting transformers and connectors; relays; terminal blocks; printed-circuit-board connectors.

AMPEX CANADA INC.

132 East Drive
Bramalea, Ontario, Canada
L6T 3T9

Tel: (416) 791-3100
Telex: 06-97627

Products: video and pulse distribution amplifiers for television studio and CATV applications.

AMPHENOL CANADA INC.

Amphenol North America Div.
44 Metropolitan Road
Scarborough, Ontario, Canada
M1R 2T9

Tel: (416) 291-4401
TWX: 610-492-4379
Telex: 065-25210

Products: filtered power connectors; printed-circuit connectors; power connectors; RF cable; CATV cables and connectors; RF connectors; rack and panel connectors; mobile whip antennas; tube sockets; telephone components; customized cable harnesses.

AMPLITROL ELECTRONICS INC.

100 Montcalm Boulevard
Candiac, Quebec, Canada
J5R 3L8

Tel: (514) 659-9111
Telex: 05-27350

Cable: AMTREC, MONTREAL

Products: electronic high-security systems for financial institutions' vaults, safes, banks and residences.

THE AMPROTEC CO.

P.O. Box 66
Pointe Claire-Dorval,
Quebec, Canada
H9R 4N5

Tel: (514) 636-4482

Products: solid-state switches and controls; custom devices and systems for special controls, timers, alarms etc.; solid-state replacements for electro-mechanical units, including high-speed telegraph relays and non-standard relay configurations; "no RFI" dimmers and speed controls.

ANALYTIC SYSTEMS WARE LTD.

1501 East Pender Street
Vancouver, British Columbia,
Canada

V5L 1V9

Tel: (604) 251-3234

Products: military and commercial power supplies; Loran navigation computers, digital autopilots, and electronic safety devices for marine use; batch and totalizing

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counters for printing and similar machines; telephone power room central alarm panels; DC motor controls.

ANATEK ELECTRONICS LTD.

240 Brooksbank Avenue
North Vancouver,
British Columbia, Canada
V7J 2C1

Tel: (604) 980-7061
Telex: 043-52689

Products: power supplies; laboratory type, modular type, and for original equipment manufacturers; thick-film hybrids; transformers.

ANDREW ANTENNA CO. LTD.

606 Beech Street
Whitby, Ontario, Canada
L1N 5S2

Tel: (416) 668-3348
Telex: 069-81269

Cable: ANDCORP WHITBY

Products: microwave antennas for all commercial and military bands both standard and high performance; satellite earth station antennas for both synchronous and non-synchronous satellites; coaxial Heliac (R) transmission line, air dielectric and foam dielectric; Heliac elliptical waveguide for frequencies from 1.7 GHz to 15.3 GHz; rigid coaxial transmission lines and waveguides; air pressurizing equipment and accessories; scatter propagation antennas; military antennas and transmission lines both tactical and strategic; custom-built radar antennas; navigational aid antennas; coaxial leaking feeder systems for underground communications or for buried detection systems.

Services: installation and field services relating to antenna systems.

ANRO ELECTRONIC INDUSTRIES LTD.

300 Wildcat Road
Downsview, Ontario, Canada
M3J 2N5

Tel: (416) 661-2600
Telex: 065-24001

Products: solenoids; toroids; timers; miniature low-pressure switches; various custom electronic components.

ANTECH ANTENNA TECHNOLOGIES LTD.

3608 St. Charles Blvd., Suite 23A
Kirkland, Quebec, Canada
H9H 3C3

Products: antenna feed systems for earth stations and satellites, custom design SAR antennas, custom designed feed systems for radio astronomy.

APEX PARAMETRICS LTD.

P.O. Box 989
Stouffville, Ontario, Canada
L0H 1L0

Tel: (416) 852-5875
Cable: APEXPARA TORONTO

Products: ground electromagnetic survey systems, single-frequency and multi-frequency.

APPLETON ELECTRIC LTD.

750 Lawrence Street
Cambridge, Ontario, Canada
N3H 2N1

Tel: (519) 653-2581
Telex: 069-59396

Products: control systems for machine tools and general and hazardous industrial applications

APPLIED MICROSYSTEMS LTD.

2035 Mills Road
Sidney, British Columbia, Canada
V8L 3S1

Tel: (604) 656-0771
Telex: 049-7181

Products: oceanographic and geophysical instrumentation — conductivity/temperature/depth measuring systems; tide gauges; current meter; salinity profiler; heat probe and accessories; printers and tape readers.

APTEC ENGINEERING LTD.

4251 Steeles Avenue West
Downsview, Ontario, Canada
M3N 1V7

Tel: (416) 661-9722
Telex: 065-27210

Products: nuclear radiation detectors; geiger mueller counters; hyperpure germanium detectors, including portables; fixed gamma area monitors, liquid effluent monitors, microprocessor-based hand and foot personal contamination monitors; alpha-beta geiger counters.

ARMOR ENCLOSURES

1105 Kingston Road
Pickering, Ontario, Canada
L1V 1B6
Tel: (416) 284-0131
Telex: 06981290

Products: sheet-metal cabinets designed in the modular concept for data processing, computer, telecommunications, for the electrical and electronic industry.

ASCOLECTRIC LTD.

P.O. Box 160
Brantford, Ontario, Canada
N3T 5M8
Tel: (519) 756-5287
Telex: 061-81149

Products: electronically controlled transfer switches; power-supply monitors; diesel-engine starting panels; synchronizing equipment.

ATC MANUFACTURING LTD.

P.O. Box 220
202 Regina Street North
Waterloo, Ontario, Canada
N2J 3Z9
Tel: (519) 885-4510
Telex: 069-55249

Products: laminated iron core transformers.

ATHABASCA RESEARCH CORP. LTD.

11210 - 143 Street
Edmonton, Alberta, Canada
T5M 1V5
Tel: (403) 453-6151
Telex: 037-2114

Products: weather radar systems, meteorological instruments.

Services: electronic research and development, air-quality monitoring.

AUDIOTRONICS ENTERPRISES LTD.

631 Fort Street
Victoria, British Columbia,
Canada
V8W 1G1
Tel: (604) 385-0911

Products: portable strobe markers for buoys or construction warning displays; gas detectors for marine use, traffic controls; marine lights.

AUDOR COMMUNICATIONS INC.

2700 Lancaster Road
Ottawa, Ontario, Canada
K1B 4T7
Tel: (613) 523-9933
Telex: 053 3172 AC1 Ott

Products: ground-based aviation communication systems; air navigation systems; six-digit 24-hr digital clock, consoles, mobile and fixed control towers, air traffic control multi-channel tape recorders, solid-state air traffic control communication control systems with intercom, hot lines, telephone.

AUTOMATEC

A division of BG Checo International Ltd.
7700 De Lamartine
Montreal, Quebec, Canada
H1J 2A8
Tel: (514) 353-8940
Telex: 05-828723

Products and services: data acquisition and processing; supervisory control equipment (micro-processor based); annunciators; power-line carrier equipment (teleprotection); process control systems (microprocessor based); interface systems; emergency lighting; rolling-stock lighting (static inverter ballast); static power inverters and converters; fare-control systems; magnetic ticket readers; sequence-of-events recorders; flux control circuit for current transformers.

AUTOMATIC WINDING CORP. LTD.

300 Wildcat Road
Downsview, Ontario, Canada
M3J 2N5
Tel: (416) 661-2600

Products: RF and IF transformers; radio oscillators; chokes; peaking coils; convergence coils; automotive components; various custom electronic components.

AUTO VOX INC.

438 Avenue Papin
St-Foy, Quebec, Canada
G1P 3T9

Products: intercom systems; public address systems for business and industry.

Services: design and manufacture of some special electronics circuits for telephone companies.

AVIATION ELECTRIC LTD.

P.O. Box 2140
200 Laurentien Boulevard
St. Laurent, Quebec, Canada
H4L 4X8
Tel: (514) 744-2811
Telex: 05-826688
Cable: AVIATION-MONTREAL

Products: land navigation systems; vehicle-position reporting systems; aircraft gas-turbine fuel-control systems; aircraft instruments and flight-system components; repair and overhaul of aircraft instruments, accessories, and navigational aids; airborne radar electrical connectors.

AVIONICS CO.

A subsidiary of Leigh Instruments Ltd.
P.O. Box 200
Niagara-on-the-Lake, Ontario,
Canada
L0S 1J0
Tel: (416) 468-3632

Products: printed circuit boards; terminal boards; silk screening and precious-metal plating; designs and assembles circuit boards to customer specifications.

B

BDK TEMPERATURE SYSTEMS LTD.

208 Toryork Drive
Weston, Ontario, Canada
M9L 1Y2
Tel: (416) 749-7300

Products: designers and manufacturers of controlled environment and laboratory test equipment for research, industry, education and medicine.

B&K PLASTIC INDUSTRIES LTD.

9790 Meunier Street
Montreal, Quebec, Canada
H3L 2Y8
Tel: (514) 384-5560

Products: knobs, push buttons, slide controls, dials, escutcheons, front panels, nameplates.

Services: facilities for shielding plastic components against electromagnetic interference and radio-frequency interference, by vacuum plating.

BACH-SIMPSON LTD.

P.O. Box 5484
1255 Brydges Street

Canada in the world of electronics

London, Ontario, Canada

N6A 4L6

Tel: (519) 452-3200

Telex: 064-5843

Cable: WILBAC

Products: panel meters; control instruments; shunts and current transformers; portable electrical and electronic test equipment; medical diagnostic Doppler ultrasound meters, digital panel meters.

BAILEY CONTROLS

860 Harrington Court

Burlington, Ontario, Canada

L7N 3N4

Tel: (416) 639-8840

Telex: 061-8506

Cable: BAILYCANDA

Products: pneumatic and electronic products for metering and control systems, digital sequencing systems, data acquisition systems and commissioning assistance for power and process industries.

BARADINE PRODUCTS LTD.

Box 86757, North Vancouver,

British Columbia, Canada

V7L 4L3

Tel: (604) 988-9853

Products: range of industrial computer cards to meet the STD BUS format.

BARNES ENGINEERING CO. LTD.

380 Tapscott Road

Scarborough, Ontario, Canada

M1B 2Y8

Tel: (416) 298-9853

Products: computerized machine controls, press controls, automation systems, malfunction-detection systems, anti-tiedown controls, automatic parts feeders and transfer systems, computerized controls for packaging machinery.

BARON COMMUNICATIONS LTD.

P.O. Box 82010

6939 Hastings Street

N. Burnaby, British Columbia,
Canada

V5C 5P3

Tel: (604) 291-8272

Products: tone signalling encoders and decoders; single-tone, two-tone sequential or

simultaneous, dual-tone multi-frequency encoders and decoders; digital decoders; voltage regulators; radio telephone interconnect terminals, printed circuit boards.

BARRINGER RESEARCH LTD.

304 Carlingview Drive

Rexdale, Ontario, Canada

M9W 5G2

Tel: (416) 675-3870

Telex: 06-968743

Cable: 8ARESEARCH

TORONTO

Products: geophysical instruments (magnetometers, EM); airborne and ground instruments and geochemical systems; program participation and management-consulting and contracting-laboratory analyses; ground and airborne pollution detection instruments and heavy water loss detectors; ground and airborne pollution monitoring, contract research and development, electro-optics, systems engineering, portable radiometer.

BATTEN GRAPHICS LTD.

553 Richmond Street West

Toronto, Ontario, Canada

M5V 1Y6

Tel: (416) 863-1355

Products: lead frames, discs, filters, screens, masks and other photo-etched custom parts.

Services: chemical milling of a wide variety of metals, brass, copper, stainless steel, Alloy 42 Kovar Hy Mu 80 in thickness from .001 in. to .040 in.

BAYLY ENGINEERING LTD.

A Member of the AEG-

TELEFUNKEN group

167 Hunt Street

Ajax, Ontario, Canada

L1S 1P6

Tel: (416) 683-8200

Telex: 06-981293

Products: coaxial transmission systems; multiplex systems; open-wire carrier systems; analog and digital, mono and stereo program channels (STLs); conference networks; telecommunications amplifiers, attenuators, termination sets, timers, flashers, vox units, and telephone ringing/signalling equipment; electronic filters, equalizers, transformers, repeat coils, loading coils and

hybrids; remote control/supervisory and tone signalling systems and equipment; power line carrier and frequency shift tone equipment; RF coaxial load resistors; RF wattmeters; telephone jacks, plugs and adapters; VHF/FM broadcast transmitters; FM two-way mobile radio systems; secondary surveillance radar; direction-finding equipment; postal mechanization equipment for flat mail sorting; custom design and contract manufacturing.

BECKMAN INSTRUMENTS INC.

Electronic Technologies Group
901 Oxford Street
Toronto, Ontario, Canada
M8X 5T2

Tel: (416) 251-5251
TWX: 610-492-1301

Products: precision multi-turn and single-turn potentiometers; trimming potentiometers; electro-mechanical assemblies to custom design.

BEEL CONTROLS LTD.

2650 Pitfield Boulevard
St. Laurent, Quebec, Canada
H4S 1G9

Tel: (514) 334-6500
Telex: 05-824775
Cable: BEELCON

Products: DC thyristor adjustable-speed drives; rectifier power supplies; static AC power controllers for heaters, and induction motors.

BIOSIG INC.

5471 Royalmount Avenue
Montreal, Quebec, Canada
H4P 1J3

Tel: (514) 733-3362

Products: medical electronics products — heart-rate monitors, telemetry systems, electromyographs.

Services: complete design, R&D, and manufacturing facilities to provide finished products on private-labeling and OEM basis.

BIOTECH ELECTRONICS LTD.

715 Halpern Avenue
Dorval, Quebec, Canada
H9P 1G5

Tel: (514) 636-0790
Telex: 05-821501

Products: Bionaire range of air

cleaner/ionizers with the Electret filter; test instrumentation and R&D.

BOMEM INC.

910 Place Dufour
Ville de Vanier, Quebec, Canada
G1M 3B1

Tel: (418) 683-1707
Telex: 051-3438

Products: interferometers and Fourier Transform spectrometers; sports-timing systems.

BOSTON INSULATED WIRE & CABLE CO. LTD.

118 Shaw Street
Hamilton, Ontario, Canada
L8L 7V3

Tel: (416) 529-7151

Products: cable assemblies for TV cameras and computers; cables for microwave in satellite earth stations; elevator travelling cable; high-temperature radiation-resistant nuclear control cables.

BRISTOL AEROSPACE LTD.

P.O. Box 874
Winnipeg, Manitoba, Canada
R3C 2S4

Tel: (204) 775-8331
Telex: 03-5587
TWX: 610-671-3598
Cable: BRISAIRCO

Products: rocket telemetry and control systems (for scientific soundings and meteorological data acquisition) — VHF telemetry transmitters; voltage controlled subcarrier oscillators; voltage regulators; IRIG standard commutators; magnetometers; aspect measuring systems; vehicle telemetry antennas; electronic timers; modular data acquisition systems (pollution, meteorology, hydrology, oceanography, etc.); encoders and decoders; teletype formatters; remote and master control stations (manual and automatic); analog-to-digital and digital-to-analog converters; modems (RF or hard line); data processing; satellite telemetry equipment — PCM encoders and decoders; switching units; remote controlled nuclear heat exchanger tube inspection systems and instrumentation — eddy current instruments, data communications, microprocessor control systems, automatic tube selection devices, display consoles; wind

power conversion systems for remote locations — vertical axis turbines, low speed alternators, control systems, power systems.

BRISTOL OF CANADA

234 Attwell Drive
Rexdale, Ontario, Canada
M9W 5B3

Tel: (416) 675-3820
Telex: 06-989176

Products: industrial instrumentation for process control and data acquisition. Includes microprocessor-based distributed digital control systems for plant use, long-distance computer-based data acquisition systems, and conventional measurement and control instrumentation.

BRITISH ACOUSTICS

1011 Meyerside Drive
Mississauga, Ontario, Canada
L5T 1K8

Tel: (416) 671-0982

Products: high-quality loudspeaker drive units and systems.

BBC BROWN BOVERI CANADA INC.

2260 Place du Canada,
Montreal, Quebec, Canada

Tel: (514) 875-7140
Telex: 058-21552

Products: overhead ground-wire power supplies; control equipment for power supplies in utilities and subways; telephone carrier systems.

BRYSTON MANUFACTURING COMPANY

57A Westmore Drive
Rexdale, Ontario, Canada
(416) 746-1800

Products: af power amplifiers, preamplifiers, distribution amplifiers.

BURGESS SWITCH CO. LTD.

777 Warden Avenue
Scarborough, Ontario, Canada
M1L 4C3

Tel: (416) 751-8280
Telex: 06-963582

Products: switches, including illuminated, limit, micro, proximity, pushbutton, safety, snap-action, solid-state.

Canada in the world of electronics

BURNDY INC.

Components Division
80 Bullock Drive
Markham, Ontario, Canada
L3P 3P7
Tel: (416) 294-6634
Telex: 06-22574

Products: electrical and electronic connectors and wiring accessories including PC connectors, IC sockets, rack and panel connectors, circular connectors; crimp terminals, cable ties and clamps, coaxial ferrules; installation tooling; bolted and compression power connectors for aluminum and copper conductors.

BURROUGHS INC.

801 York Mills Road,
Don Mills, Ontario, Canada
M3B 1X8
Tel: (416) 445-4030
Telex: 07-57398

Products: Full-line computer manufacturer.

C

CAD/CAM GRAPHIC SYSTEMS LTD.

700 Industrial Avenue
Ottawa, Ontario, Canada
K1G 0Y9
Tel: (613) 526-0620

Products: printed circuit boards; printed circuits.

Services: CAD of PCBs, ICs and hybrids.

CAE ELECTRONICS LTD.

P.O. Box 1800
St. Laurent, Quebec, Canada
H4L 4X4
Tel: (514) 341-6780
Telex: 05-827812
TWX: 610-422-3063

Products: commercial aircraft flight simulators; military aircraft flight and tactical simulators; helicopter flight and tactical simulators; nuclear power station simulators; computerized air-traffic-control display systems; airborne magnetic anomaly detection and compensator systems for ASW applications; supervisory control and data-acquisition systems for electric power and petroleum industries; field maintenance, repair and overhaul, test and calibration services and facilities.

C-TECH LTD.

525 Boundary Road
Cornwall, Ontario, Canada
K6H 6M7
Tel: (613) 933-7970

Products: omni-scanning sonars, digital depth sounders; interpolating transducer scanner; U.S. Navy design approved standard electronic modules (SEMs) underwater test facility; transducer and sonar systems engineering.

CALIFONE INDUSTRIES LTD.

1305 Odium Drive
Vancouver, British Columbia,
Canada
V5L 3M1
Tel: (604) 254-5148
Telex: 04-54521

Products: tape recorders, listening centres and record players for educational institutions and industry.

CAMBRIDGE SPEAKERS LTD.

260 Sheldon Drive
Cambridge, Ontario, Canada
N1T 1A8
Tel: (519) 623-0500

Products: loudspeaker drivers.

CAMPTECH CIRCUITS INC.

3244 Kennedy Road
Scarborough, Ontario, Canada
M1N 3P7
Tel: (416) 298-9974

Products: printed circuit boards.

Services: design, manufacture and assembly of printed circuit boards.

CANADA SYSTEMS GROUP LTD.

Advanced Technology Systems
Division
1736 Courtwood Crescent
Ottawa, Ontario, Canada
K2C 2B5
Tel: (613) 225-1171
Telex: 053-3661

Products: real-time computer systems and software for vehicle dispatch, telex exchange switching, supervisory control and material handling; computer graphics and air traffic control software and simulation; taxi-dispatch computer system with in-vehicle mobile terminal.

CANADA WIRE AND CABLE CO. LTD.

257 Ferrand Drive

Don Mills, Ontario, Canada
M3C 3J4
Tel: (416) 424-5000

Products: fibre optics products for telephone, CATV and control systems, and power cable capability.

CANADIAN APPLIED TECHNOLOGY

Buttonville Airport,
16th Avenue
Markham, Ontario, Canada
L3P 3J9
Tel: (416) 477-6681
Telex: 06-986511

Products: telemetry system (digital minicomputer controlled); air-quality system; water-resource management system; data recorder; data averager; microprocessor industrial management systems for dredging operations.

CANADIAN ASTRONAUTICS LTD.

1024 Morrison Drive
Ottawa, Ontario, Canada
K2H 8K7
Tel: (613) 820-8280

Products: custom designed electronic systems including: instrumentation systems; test facilities; display and control units; data acquisition systems; RF transmitters and receivers; antennas; battery chargers and management systems; signal processors; computer interfaces; microprocessor applications; satellite ground stations; airborne radar.

CANADIAN DIGITAL EXPRESS CO.

5 Denison Street
Markham, Ontario, Canada
L3R 1B5
Tel: (416) 475-1855

Products: terminal options; process-control equipment.
Services: in-shop repair service for data-communication equipment, including terminals, modems and printers.

CANADIAN GENERAL ELECTRIC CO. LTD.

940 Lansdowne Avenue,
Toronto, Ontario, Canada
M6H 3Z4
Tel: (416) 530-5000
Telex: 065-24238

Products: traffic-control equipment; controllers, signal and accessories.

CANADIAN GENERAL ELECTRIC CO. LTD.

100 Wingold Avenue
Toronto, Ontario, Canada
M6B 1R2
Tel: (416) 789-3281
Telex: 06-524238

Products: mobile radio communications equipment, including mobiles, base stations, portables, pagers, paging terminals.

CANADIAN LARSEN ELECTRONICS LTD.

Unit 101, 283 East 11th Avenue
Vancouver, British Columbia,
Canada
V5T 2C4
Tel: (604) 872-8517
Telex: 04-54666

Products: two-way radio antennas.

CANADIAN MARCONI CO.

2442 Trenton Avenue
Montreal, Quebec, Canada
H3P 1Y9
Tel: (514) 341-7630
Telex: 01-2260
TWX: 610-421-3564
Cable: ARCON MONTREAL

Products: full range of fixed, mobile and portable radio communications equipment in HF/SSB, VHF/FM and UHF/FM; marine radar and communications; tactical microwave radio relay; Doppler navigation systems for fixed and rotary wing aircraft; airborne and marine OMEGA navigation systems; aircraft instrument display systems; helicopter navigation radar; land-based and marine satellite navigation and position location systems; Telex exchanges, photogrammetric systems, surveillance radar, multilayer printed wiring boards; thin film, thick film and hybrid microcircuits; delay lines; filters; transformers.

CANADIAN PUREGAS EQUIPMENT LTD.

Box 533
Hamilton, Ontario, Canada
L8N 3K5
Tel: (416) 529-7047
Telex: 061-8377

Products: telecommunications equipment, including devices for monitoring pressurized cables and pressurized microwave antennas; ultrasonic cable-leak detectors.

CANADIAN RESEARCH INSTITUTE

30 Progress Avenue
Scarborough, Ontario, Canada
M1P 4W8
Tel: (416) 299-6666

Products: educational instruments; research apparatus; high-voltage test sets; panel and portable meters; school instruments; demonstration apparatus; geophysical instruments; public utility instrumentation; pollution instrumentation; pH meters and controllers; power supplies; electromedical instruments; television test apparatus.

CANADIAN RGL ELECTRONICS

34 Continental Place
Scarborough, Ontario, Canada
M1R 2T4
Tel: (416) 292-2286
Telex: 06-525248

Products: modular multiplexing equipment and systems, particularly System 745 custom-fit data acquisition system for automatic tank-level gauging.

CANADIAN STACKPOLE LTD.

550 Evans Avenue
Toronto, Ontario, Canada
M8W 2V6
Tel: (416) 255-2373
Telex: 06-967730

Products: isolated power systems; line isolation monitors; biomedical electrical testers; accessories for hospital electrical systems; prefabricated service walls for intensive or patient care; medical gas and electrical wall consoles.

CANSTAR COMMUNICATIONS

Division of Canada Wire & Cable Co. Ltd.
1240 Ellesmere Road
Scarborough, Ontario, Canada
M1P 2X4
Tel: (416) 293-9722
Telex: 065-25403

Products: fibre-optic cable, fibre-optic couplers, optical line

Canada in the world of electronics

terminating equipment, complete design, installation and servicing of fibre-optic systems.

CANTHERM

8415 Mountain Sights Avenue
Montreal, Quebec, Canada
H4P 2B8
Tel: (514) 739-3274
Telex: 05-825619

Products: moxie — an NTC thermal sensor, thin film, high precision NTC thermistor.

CANWIRCO

Belleville Division
200 Jamieson Bone Road
Box 4700
Belleville, Ontario, Canada
K8N 5E2
Tel: (613) 966-4130
TWX: 610 328 3240

Products: field telephone cable for military use.

CARDION/D.G.I. DIVISION

General Signal Ltd.
308 Legget Drive
Kanata, Ontario, Canada
K2K 1Y6
Tel: (613) 592-3141

Products: Digital data acquisition system, digital clock, VOR ground check system, helicopter air data system, ultrasonic velocity sensors; hydrographic navigation system, solid-state voice recorder.

CENTAUR MFG. CO. LTD.

57 Newkirk Road
Richmond Hill, Ontario, Canada
L4C 3G4
Tel: (416) 884-6474

Products: ignition systems, ignition analyzers, including tach-dwell analyzers.

CENTRAL DYNAMICS LTD.

147 Hymus Boulevard
Pointe Claire, Quebec, Canada
H9R 1G1
Tel: (514) 697-0811
Telex: 05-821506
TWX: 610-422-3906

Products: video terminal equipment for broadcast, educational and cable television systems, available in NTSC, PAL, PAL-M and SECAM standards; video production and distribution switchers, master control (presentation) switchers, machine

control systems and peripheral equipment; automated television presentation systems.

CTF SYSTEMS INC.

15-1750 McLean Avenue
Port Coquitlam, British Columbia,
Canada
V3C 1M9
Tel: (604) 941-8561
Telex: 04-353622

Products: High-sensitivity digital superconducting magnetometers for applications in biomagnetometry, rock magnetometry, geophysics and pure research; non-magnetic liquid helium dewars; ultrasonic tube corrosion analyzer for ship boilers; non-destructive testing equipment; data-acquisition systems for the above applications; signal-processing systems; research and development in electronics, cryogenics and applied physics.

CTS OF CANADA LTD.

80 Thomas Street
Streetsville, Ontario, Canada
L5M 1Y9
Tel: (416) 826-1141
Telex: 06-97508

Products: static inverters; uninterruptible power supply systems including start-up assistance; DC-DC (static) converters; battery chargers; rectifier-power supplies; variable resistors; selector switches; trimming potentiometers; crystals; filters; rectifiers; inverters; micro-miniature components and circuit packages; custom wiring harnesses.

CVDS INC.

160 Graveline
Ville St-Laurent, Quebec, Canada
H4T 1R7
Tel: (514) 342-9861

Products: microprocessor and CMOS digital telecommunications and telemetry control equipment, supervisory and remote control equipment; data-acquisition and telemetry systems; data line condition packages; autodialers and automatic calling units; telephone signal converter equipment; radio control heads; digital clocks and special assemblies.

CABCO RESEARCH LTD.

P.O. Box 123,
Lower Sackville, Nova Scotia,

Canada
B4C 2S8
Tel: (902) 865-0335

Products: computer and data communications, cable assemblies (RS232, GPIB, etc.); coaxial cable assemblies; bulk cable; switch boxes, panels, etc.; harnesses for any data or power cabinet or panels.

CABLESHARE INC.

20 Enterprise Drive
London, Ontario, Canada
N6A 4L6
Tel: (519) 686-2900
Telex: 064-5693

Products: a series of X.25 computer communications interfaces, on-line business systems for large distributed companies, facilities management in computer centre and a series of Telidon-based presentation products. Telidon products: page creation, large screen Telidon-based Presentation Theatre, electronic advertising system for shopping malls and a touch screen information system.

CALGARY CONTROLS LTD.

7056 H. Farrell Road Southeast
Calgary, Alberta, Canada
T2H 0T2
Tel: (403) 253-6101

Products: hand-held transceiver, can be used on data lines without interfering with data transmission; telecommunication products for selective calling; radio-telephone interface and alarm-status monitoring.

CENTURY III ELECTRONICS INC.

1580 Rand Avenue
Vancouver, British Columbia,
Canada
V6P 3G2
Tel: (604) 263-0911
Telex: 04-55490

Products: cable-television equipment 5-450 MHz consisting of Century III trunkline; distribution and apartment amplifiers; VHF/UHF multitaps; VHF splitters; couplers and related passive devices; AC power supplies coaxial connectors; terminators; adaptors; consulting services on cable television systems.

CETA LEARNING SYSTEMS

452 Kraft Road
Fort Erie, Ontario, Canada
L2A 4M7
Tel: (416) 871-4260

Products: electrical and electronic training systems, breadboarding apparatus, power supplies, laboratory furniture, custom coil winding and manufacturing.

CHION CORP.

P.O. Box 1600
Edmonton, Alberta, Canada
T6E 5G8
Tel: (403) 432-0597

Products: compilers for translation of ALGOL 68 computer language.

CHLORIDE SYSTEMS (CANADA) LTD.

4940 Bourg Street
Montreal, Quebec, Canada
H4T 1J2
Tel: (514) 735-2573
Telex: 05-826862

Products: DC power supplies for communications equipment, including power inverters.

CHUBB SECURITY SYSTEMS

A Division of Chubb Industries Ltd.
80 Horner Avenue
Toronto, Ontario, Canada
M8Z 4X9
Tel: (416) 252-4141
Telex: 06-97570

Products: alarm control systems; proprietary computer-based management systems for security and fire; card-access systems.

CIRCO-CRAFT COMPANY INC.

17600 Trans Canada Highway
Kirkland, Quebec, Canada
H9J 3A3
Tel: (514) 694-8000
Telex: 05-823523

Products: high-quality double-sided and multi-layer printed wiring boards for commercial and military applications.

CIRCUIT DESIGN CORP.

1315 Mazurette St., Suite 1
Montreal, Quebec, Canada
H4N 1G8
Tel: (514) 382-1440

Products: programmable printer, automatic process-control system, billiard computer, bowling com-

puter and automated weigh-scale system.

Services: micro-mini computer-system consulting; software-firmware custom services; electronic scales and balances distributing.

CIRCUIT GRAPHICS LTD.

8030 Winston Street
Burnaby, British Columbia,
Canada
V5A 2H5
Tel: (604) 420-3313

Products: printed circuits, plated-through holes and single-sided.

COLLBEN MANUFACTURING CO.

5 Thorpe Street North
Dundas, Ontario, Canada
L9H 1K2
Tel: (416) 628-6913

Products: antennas — receiving, CB and mobile, VHF, FM and TV towers.

COMAD COMMUNICATIONS LIMITED

91 Kelfield Street, Unit 5
Rexdale, Ontario, Canada
M9W 5A3
Tel: (416) 245-1734
Telex: 06-989238

Products: video equalizing distribution amplifiers, video switching systems, audio jackfields, machine control systems.

COM DEV LTD.

155 Sheldon Drive
Cambridge, Ontario, Canada
N1R 7H6
Tel: (519) 622-2300
TWX: 610-366-3164

Products: communications satellite components and subsystems: frequency bands from 100 to 40,000 MHz; filters, multiplexers, couplers, ferrite circulators and isolators, adaptors, terminations; high power microwave components and subsystems for earth terminals: diplexers, loads, combining networks, ferrite devices, couplers; microwave components and subsystems for terrestrial relay and radar systems from 1000 to 26,000 MHz.

COMMERCIAL ELECTRONICS LTD.

1335 Burrard Street

Canada in the world of electronics

Vancouver, British Columbia,
Canada
V6Z 1Z7
Tel: (604) 669-5525
Telex: 04-54470

Products: multi-media control systems for theatres, exhibition centres, planetariums, museums, etc.; synchronizers for multi-track audio recording and video production.

COMMUTRON LTD.

1600 Brimley Road
Scarborough, Ontario, Canada
M1P 3H1
Tel: (416) 291-2733

Products: automatic telephone-call sequencer.

COMPAR CONNECTORS

105 Brisbane Road
Downsview, Ontario, Canada
M3J 2K6
Tel: (416) 663-5670
TWX: 610-492-1337

Products: printed-circuit card-edge connectors; delta "D" (sub "D") connectors and accessories.

COMPTEC INTERNATIONAL LTD.

7847 Venture Street
Burnaby, British Columbia,
Canada
V5A 1V1
Tel: (604) 420-2830
Telex: 04-354548

Products: two-color molded keytops for computer peripherals, telephones, business machines; precision plastic components for electronic keyboards, plungers, housings, keytops (keycaps).

Services: precision mold-making, specializing in small parts normally found in the computer environment.

COMPUTER ASSEMBLY SYSTEMS, LTD.

1245 California Avenue
Brockville, Ontario, Canada
K6V 5Y6
Tel: (613) 342-5041
Telex: 066-36574

Other Locations:
266 Marsland Drive
Waterloo, Ontario, Canada
N2J 3Z1
49 Jetland Road
Toronto, Ontario, Canada
M8Z 2G6

Services: printed circuit board assembly, using manual and automated facilities.

COMPUTING DEVICES CO.

A Division of Control Data
Canada Ltd.
P.O. Box 8508
Ottawa, Ontario, Canada
K1G 3M9
Tel: (613) 596-3810
Telex: 053-4139
TWX: 610-563-1632

Products: navigation including projected map systems and displays; signal processing associated with airborne systems and displays; acoustic processing associated with ocean systems; fire control associated with fixed and mobile fire-control systems; image processing and analysis; sensor data processing; artillery, tank and other specialized computers; special control displays; automated test equipment; guided radar surveillance system using Guidar guided radar sensor for lengthy outdoor perimeters; thrust computing systems associated with aircraft jet engines; field engineering and maintenance services.

COMTERM INC.

545 Delmar Avenue
Pointe Claire, Quebec, Canada
H9R 4A7
Tel: (514) 694-3030
Telex: 05-821812

Products: computer terminals; video display products micro-processor based with most operational features implemented under software control; 5270 series features BSC and SNA/SDLC compatibility with the IBM 3270 family; 341-A/B bilingual Arabic/English terminals.

CONIAGAS RESEARCH INC.

166 Pearl Street
Toronto, Ontario, Canada
M5H 1L3
Tel: (416) 597-0969

Products: "Coni-Mag" magnetometer.

CONSPEC CONTROLS LTD.

44 Martin Ross Avenue
Downsview, Ontario, Canada
M3J 2K8
Tel: (416) 661-0500
Telex: 06-965843

Products: microcomputer-based monitoring and control systems for industries, utilities and mining, including a high-speed sequence-of-events logger with CRT display; monitoring and control system with distributed bus multiplexer; plant-wide energy-management systems for large users.

CONSULTRONICS LTD.

38 Le Page Court
Downsview, Ontario, Canada
M3J 1Z9
Tel: (416) 630-0560
TWX: 610-492-7210

Products: audio analyzer, microwave monitor, power monitor, electrical transducers.

CONTROL DATA CANADA LTD.

1855 Minnesota Court
Mississauga, Ontario, Canada
L5N 1K7
Tel: (416) 826-8640

Products: large-scale computer systems, defence systems, peripheral systems, computer supplies, data services and education and professional consulting services.

CONTRONIC CONTROLS LTD.

7611 Bath Road
Mississauga, Ontario, Canada
L4T 3T1
Tel: (416) 678-1032
Telex: 06-983630

Products: electronic security and fire alarm equipment.

CORDS (CANADA) LTD.

220 Bowie Avenue
Toronto, Ontario, Canada
M6E 2R8
Tel: (416) 787-1114
Telex: 06-969681

Products: plastic-electrical and electronic hardware on stock and custom basis.

CRAMCO SOLDER ALLOYS

80 Sinnott Road
Scarborough, Ontario, Canada
M1L 4M7
Tel: (416) 757-2876

Products: perfect, tiny spheres of solder; high-purity solders; fluxes; printed circuit solders; rosin core.

CRESCENT CONTROLS LTD.

2960 West 4th Avenue
Vancouver, British Columbia,
Canada
V6K 1R4
Tel: (604) 732-7461
Telex: 04-508538

Products: industrial process control equipment and systems; multi-point supervisory and alarm systems; computer-based supervisory control; supervisory control equipment and systems including pulse width modulation, audio tone signalling, time multiplexed signalling and computer-based time multiplexed signalling.

CRITERION INSTRUMENTS LTD.

30 Progress Avenue
Scarborough, Ontario, Canada
M1P 4W8
Tel: (416) 299-6666

Products: high-voltage test sets; panel and portable meters; school demonstration apparatus; public utility instrumentation; power supplies; insulation-resistance testers; isolation systems.

CRONE GEOPHYSICS LTD.

3607 Wolfedale Road
Mississauga, Ontario, Canada
L5C 1V8
Tel: (416) 270-0096
Telex: 06-961260
Cable: CRONGEO TORONTO

Products: geophysical equipment; ground and borehole pulse electro-magnetic units, RADEM VLF-EM receiver; CEM-EM transmitter receiver; VEM-vertical loop EM; Newmont-type induced polarization receiver and transmitters.

CROVEN CRYSTALS

500 Beech Street
Whitby, Ontario, Canada
L1N 5S5
Tel: (416) 668-3325
TWX: 610-384-2750

Products: quartz crystals

CRYSTECH CO. LTD.

140 Milner Avenue
Scarborough, Ontario, Canada
M1S 4L3
Tel: (416) 299-1282

Products: crystal oscillators and filters.

CULVER DYNAMICS LTD.

P.O. Box 4054, Station A
Victoria, British Columbia,
Canada
V8X 3X4
Tel: (604) 382-4423

Products: power monitor for telephone companies — monitors power usage and inputs information into existing data systems; digital panel meters for telephone power boards.

CYBERNEX LIMITED

2457 Dunwin Drive
Mississauga, Ontario, Canada
L5L 1T1
Tel: (416) 828-2810
Telex: 065-22093

Products: designs and manufactures a broad range of synchronous and asynchronous video terminals as well as a dedicated application OEM micro-computer; design and support for all products are done in Canada.

D

DALE ELECTRONICS CANADA LTD.

18 Howden Street
Scarborough, Ontario, Canada
M1R 3E6
Tel: (416) 759-5631
Telex: 06-963694
Cable: DALOHM

Products: resistors — precision wire-wound, industrial wire-wound (fixed and adjustable with silicone coatings); trimmer and precision potentiometers; connectors; wire-wound packaged networks.

DANIELS ELECTRONICS LTD.

225 St. Lawrence Street
Victoria, British Columbia,
Canada
V8V 1Y2
Tel: (604) 382-8268

Products: marine and land SSB radiotelephone equipment and accessories.

DATA IMAGES INC.

1283 Algoma Road
Ottawa, Ontario, Canada
K1B 3W7
Tel: (613) 744-3773
Telex: 053-4885

Products: high-quality standard



#1 in PCB design

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DG can:

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- convert inaccurate hand-taped artwork into precision photoplotted artwork.
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- expand your capabilities without capital investment.
- design to the latest revision of MIL-STD-275.
- interpret and generate IPC code.
- provide drill film and drill tapes in a variety of formats.
- provide silk screen and solder mask artwork.
- provide assembly and detail documentation.

Call our head office for an estimate. For a final quotation, please supply your schematic, parts lists and mechanical board outline drawing.

Digital Graphics



90 Don Park Road, Markham, Ont. L3R 1C4 Tel (416) 475-9633

liquid crystal display (LCD) units, including numeric, alpha-numeric and dot matrix.

Services: design, development and manufacturing of high-performance custom LCDs.

DATAGRAM INC.

1451 Graham Bell
Boucherville, Quebec, Canada
H4B 6A1

Tel: (514) 655-3200

Telex: 05-268521

Products: manufactures a line of communication processors: a statistical multiplexer and a Burroughs concentrator.

DEES COMMUNICATIONS ENGINEERING LTD.

6475C - 64th Street
Delta, British Columbia, Canada
V4K 4E2

Tel: (604) 946-8433

(604) 946-6526

Products: telephone equipment — at customer location — manual intercom, interrupters, line relays, programmable exclusion units, lamp extenders, power supply for small key systems, ring and answer detectors, universal paging adapters, music on hold modules for 1A1, 1A2, 10A1, 10A2 systems, off-premise remote key set control, programmable and non-programmable electronic tone ringers.

DELTA-BENCO-CASCADE LTD.

124 Belfield Road
Rexdale, Ontario, Canada
M9W 1G1

Tel: (416) 241-2651

Telex: 06-965552

Products: community antenna TV (CATV) distribution equipment: products for the complete system; modulators, trunk amplifiers and line extenders, directional taps; local and remote control addressable taps; TV transmitters and translators: complete range of low-power TV transmitter and translator devices for NTSC applications.

DELTRONICS LTD.

Bloomington Road
R.R. 4
Stouffville, Ontario, Canada
L0H 1L0

L0H 1L0

Tel: (416) 640-1216

Products: control units for wind generators; portable radio-controlled traffic lights on construction sites to replace flagmen; special electronics equipment.

DEVELCON ELECTRONICS LTD.

856 - 51 Street East
Saskatoon, Saskatchewan,
Canada
S7K 5C7

Tel: (306) 664-3777
Telex: 610 731 1324

Products: electronic data-communications equipment, particularly in the limited-distance transmission and data-switching fields from initial design and manufacture through final sales and service; DATASWITCH 9000 series offers flexibility and control over the communications network; DATA SET 500 series provides economic short-distance transmission capabilities.

DEVTEK CORPORATION

280 Rayette Road
Concord, Ontario, Canada
L4K 1B1

Tel: (416) 669-4484
Telex: 06-96408

Products: design and manufacture of aluminum dip-brazed heat exchangers and electronic chassis and cabinets; precision machining of castings and aerospace materials including pure beryllium components for accelerometer and inertial navigation systems.

DIAL-A-TRONICS INCORP.

4810 Jean Talon West,
Suite 3108
Montreal, Quebec, Canada
H4P 2M7

Tel: (514) 342-1533

Products: telephone-answering equipment.

DICON SYSTEMS LTD.

719 Clayson Road
Toronto, Ontario, Canada
M9M 2H4

Tel: (416) 745-6044

Products: residential smoke detectors; intrusion alarms.

THE DICTOGRAPH CORP.

89 Glen Cameron Road
Thornhill, Ontario, Canada
L3T 1N8

Tel: (416) 881-6701
Telex: 06-964681



Multi-layer Prototypes

Digital Graphics Artwork is the perfect link between PC Board design and prototype manufacturing.

Each Computer output is engineered with the manufacturing process in mind. The result, the best quality board in the shortest possible time.

DG can:

- Manufacture to MIL-P-55110
- Provide double sided PTH in glass and polyimide in 1 to 10 days.
- Provide multi-layers in glass and polyimide in 3 weeks.
- Provide multi-layers in rigid-flex
- Provide silk screen solder mask
- Provide UV solder mask
- Provide Dry Film solder mask
- Provide solder mask over bare copper
- Provide nomenclature screening

Be sure to request a prototype board quotation along with your design layout requirements.

Digital Graphics



90 Don Park Road, Markham, Ont. L3R 1C4 Tel. (416) 475-9633

Canada in the world of electronics

Products: intercoms; autodialers; internal phone systems; telecommunications systems.

DIFFRACTO LTD.

6360 Hawthorne Drive
Windsor, Ontario, Canada
N8T 1J9
Tel: (519) 945-6373

Products: laser and electro-optical non-contacting systems for gauging and inspection of components and parts.

DIGHEM LTD.

First Canadian Place
Suite 7000
P.O. 170
Toronto, Ontario, Canada
M5X 1G9
Tel: (416) 862-7568

Products: airborne electromagnetic systems.

DIGITAL EQUIPMENT OF CANADA

100 Herzberg Road
P.O. Box 13000
Kanata, Ontario, Canada
K2K 2A6
Tel: (613) 592-5111
TWX: 610-562-8732

Products: minicomputers and microcomputers; computer systems for process-control and industrial applications. Custom products and modules.

DIGITAL GRAPHICS LTD.

90 Don Park Road
Markham, Ontario, Canada
L3R 1C4
Tel: (416) 475-9633
Telex: 06-986843

Products: a computer graphic service bureau specializing in the design and manufacture of prototype boards; printed circuits, flex circuits, two-layer and multi-layer printed circuit boards; UPC and EAN bar codes on film.

DIGITAL VIDEO SYSTEMS

716 Gordon Baker Road,
Willowdale, Ontario, Canada
M2H 3B4
Tel: (416) 499-4826
Telex: 06-966686

Products: broadcast video equipment, including digital time base correctors, digital frame storage device, and digital synchronizers.

DIPIX SYSTEMS LTD.

1785 Woodward Drive
Ottawa, Ontario, Canada
K2C 0P9
Tel: (613) 224-5175

Products: image analysis systems.

DIRECT DIGITAL INDUSTRIES LTD.

34 Continental Place
Scarborough, Ontario, Canada
M1R 2T4
Tel: (416) 292-2286

Products: modular multiplexing equipment.

DONAGA ELECTRONICS LTD.

1058A Albion Road, Suite 209
Rexdale, Ontario, Canada
M9V 1A7
Tel: (416) 741-8543
Telex: 06-963548

Products: ultrasonic thickness meters; power supplies; signal generators and frequency counters; custom-designed electronic systems including: microprocessor applications; industrial instrumentation and control; data-acquisition systems.

Services: product design and development; electronic engineering, design and drafting; product validation testing.

DUAL LITE PRODUCTS LTD.

9345 Pascal Gagnon
St. Leonard, Quebec, Canada
H1P 1Z4
Tel: (514) 326-8000
Telex: 05-828561

Products: emergency lighting systems; power poles.

DURACELL INC.

2333 North Sheridan Way,
Mississauga, Ontario, Canada
L5K 1A7
Tel: (416) 823-4410
Telex: 06-982253

Products: primary throwaway batteries, military and commercial; special battery packs for military radios, PRC 25, 77, 66, 75.

DY-4 SYSTEMS INC.

888 Lady Ellen Place,
Ottawa, Ontario, Canada
K1Z 5M1
Tel: (613) 728-3711

Products: VGT-100 family of graphics (VT-100 emulation, PLOT-10 graphics); STD Buss

Board family; Orion family of STD Buss based microcomputers with Floppy and Winchester Disc capability; RAM Disc replacement for Floppies; bright display scan converters.

DYNALOGIC INFO-TECH CORP.

141 Bentley Avenue
Ottawa, Ontario, Canada
K2E 6T7
Tel: (613) 226-1383
Telex: 053-3358

Products: DynaLedger small business and client accounting systems, with DynaLegal system for law firms, run on latest Dynalogic Microcomputer System (DMS); DynaScrip word processing and DynaMail mailing list support also available for DMS; DynaStor floppy diskette subsystems; 8100 series are interfaced to any ASCII machine via RS232C to provide IBM media compatibility; 8200 series are plug-compatibles for DEC LSI-11 Q-Bus computers.

DYNATEL SYSTEMS

8461 Peele Street, Unit 23
Concord, Ontario, Canada
L4K 1B1
Tel: (416) 669-4914

Products: television controlroom equipment.

E

EDA INSTRUMENTS INC.

1 Thorncliffe Park Drive
Toronto, Ontario, Canada
M4H 1G9
Tel: (416) 425-7800
Telex: 062-3222

Products: fluxgate magnetometers; radon detection systems for uranium prospecting; automatic radon gas monitoring systems; degassing systems; magnetic observatory systems; gamma ray spectrometers and scintillometers for uranium exploration; portable proton precession magnetometers; radon daughter monitors; uranium assayers; rotary fusion burners for analytical laboratories; thermal printers; magnetic cassette recorders; uranium ore analyser; declination and inclination magnetometers.

EDAC INC.

20 Railside Road
Don Mills, Ontario, Canada
M3A 1A4
Tel: (416) 445-2292
TWX: 610-492-1398

Products: printed-circuit card-edge connectors; printed-circuit metal-to-metal connectors; rectangular rack and panel connectors; printed-circuit card guides; contacts (loose, reel); contact crimp tools; connector accessory tools.

EKEG ELECTRONICS CO. LTD.

P.O. Box 46199, Station G
Vancouver, British Columbia,
Canada
V6R 4G5
Tel: (604) 685-7817

Products: telemetry transmitters and implantable transmitters; telemetry receivers; heart rate meters; neurophysiological rate-meters; temperature control units; EKG amplifiers; respiration monitors; data acquisition systems for biomedical and industrial applications; EMG and temperature biofeedback systems; industrial weighing systems for logging applications; remote and expanded keyboards for computers for use by the disabled; electronic aids for the disabled.

ENA DATASYSTEMS INC.

268 Galaxy Blvd.
Toronto, Ontario, Canada
M9W 5R8
Tel: (416) 675-3304
Telex: 06-989249

Products: complete range of international standard X.25 statistical multiplexors. All units use EIA RS-232 parts and/or programs that allow units to function using Univac, Honeywell, Hewlett-Packard and other communication protocols.

ESE LTD.

1780 Albion Road
Rexdale, Ontario, Canada
M9V 1C1
Tel: (416) 749-2271
Telex: 06-989522
TWX: 610 492 6360

Products: high-speed modems; data communications products; telephone traffic management systems including hardware and

software; contact scanners for nuclear reactors; circuit-access and test system for voice and data circuits; T-ASP, a signal processor computer for sonar, seismic exploration, X-Ray tomography and radar or IR imaging applications.

EDDY CURRENT TECHNOLOGY

Box 67
Site 15 SS 3
Fredericton, New Brunswick,
Canada
E3B 5W9
Tel: (506) 455-0514

Products: eddy current instrument for non-destructive testing of metal tubes.

EDWARDS INTERNATIONAL

6465 Airport Road,
Mississauga, Ontario, Canada
L4V 1E4
Tel: (416) 678-6767
Telex: 069-68768

Products: heavy-duty alarm bells, chimes, horns, buzzers, duotronic horn/siren; light-duty alarm bells, chimes, buzzers and mini-horns; electric door openers; door switches and trips for security applications; commercial electric clocks; telephone and intercom buzzers; fire protection; automatic heat detectors, smoke detectors; alarm bells, horns, chimes, buzzers, duotronic horn/siren; single-zone fire alarm control equipment; multi-zone fire alarm control equipment; remote lamp annunciator; emergency supervised communication equipment for high-rise buildings; emergency visual audio control system, EVAC, for high-rise buildings; fire alarm control equipment to monitor remote buildings over telephone lines; security products; door trips, switches and window tape; central control system to monitor building security systems; pulsar system, to monitor multi-functions over one pair of telephone cables; master clock and program equipment; industrial annunciator; hospital nurses call system, both visual and audio-visual; hospital doctors in/out register system.

EKOLITE LTD.

525 East Hastings Street
Vancouver, British Columbia,

Canada in the world of electronics

Canada
V6A 1P9
Tel: (604) 254-4515
Cable: CANEKO

Products: graph echo-sounders, flashing depth indicators.

ELECTRIC POWER EQUIPMENT LTD.

1285 Homer Street
Vancouver, British Columbia,
Canada
V6B 2Z2
Tel: (604) 682-4221
Telex: 04-51171

Products: fire detection and alarm systems, smoke detectors, emergency lighting systems, uninterruptible power supply systems.

ELECTROHOME ELECTRONICS

809 Wellington Street North
Kitchener, Ontario, Canada
N2G 4J6
Tel: (519) 744-7111
Telex: 069 55449

Products: open-frame monitors for applications ranging from computer terminals to electronic games; commercial monitors and related products for applications including process control, medical instrumentation, broadcast and personal computers; Telidon technology-based integrated terminals and satellite TVRO receiving systems.

ELECTRONIC CRAFTSMEN

73 Schaefer Street
Waterloo, Ontario, Canada
N2L 4C4
Tel: (519) 884-2210

Products: electrical and electronic coils and transformers including 3-phase transformers.

ELECTRONIC HARDWARE SPECIALTIES LTD.

175 Eileen Avenue
Toronto, Ontario, Canada
M6N 1W3
Tel: (416) 769-0585

Products: wire-wound resistors.

ELECTROVERT LTD.

3285 Cavendish
Montreal, Quebec, Canada
H4B 2L9
Tel: (514) 488-2521

Products: automated wave-soldering equipment; PC board

assembly; cable trays; terminal blocks; wire harnessing systems; lead cutting, cleaning, component tinning, solder coating, reflow soldering, conveyORIZED assembly, component forming and custom design equipment for the electronics, electrical, communications, aerospace and automotive industries.

ELECTRO VOX INDUSTRIES INC.

2626 Bates Road
Montreal, Quebec, Canada
H3S 1B2
Tel: (514) 731-3771
Telex: 05-268741

Products: loud-speaker type intercoms; amplifiers; public address equipment; fire alarm equipment; firefighter communication equipment (for high-rise buildings); interconnect telephone equipment.

ELINCA COMMUNICATIONS LTD.

275 Slater Street, Suite 1402
Ottawa, Ontario, Canada
K1P 5H9
Tel: (613) 233-5671
Telex: 053-3308

Products: antennas; transmission lines; satellite communication systems; power supplies; TDM systems; FDM data systems; radar displays; microwave communication equipment; satellite earth stations; satellite sub-systems; tropo-scatter; antenna systems; terrestrial communications systems; supervisory and control systems; teletypewriters; data transmission equipment; teletype switching systems; radars; radio relay equipment; test equipment; digital processing systems; radio and TV broadcast systems; teletypewriter multiplex systems; private and public switching systems; mobile telephones, etc.

ELKAY ELECTRONICS LIMITED

435 Finchdene Square
Scarborough, Ontario, Canada
M1X 1B7
Tel: (416) 293-8278

Products: AC-DC, DC-DC switching power supplies in the range of 50 - 400 watts, custom designs as well as standard product; linear power supplies to 100 watts; DC-DC converters.

EMHART CANADA LIMITED

Mallory Components Division
1079 Parkinson Road
Woodstock, Ontario, Canada
N4S 7W8

Tel: (519) 539-4891
Telex: 064-74132

Products: aluminum electrolytic capacitors; electromechanical timing devices; inductors.

ENERGY LOUDSPEAKER CORP.

161 Don Park Road
Unionville, Ontario, Canada
(416) 475-0050

Products: loudspeakers, drivers, systems.

EPIC DATA SALES LTD.

7280 River Road
Richmond, British Columbia,
Canada
V6X 1X5

Tel: (604) 273-9146
Telex: 04-355701

Products: a complete range of microcomputer-based data collection terminals and microcomputer-based system control units designed to provide simple, practical and flexible systems for such applications as: time and attendance; access control; inventory control; job costing; maintenance; materials control; weigh scales (up to 75 tons); control systems used in library circulation systems and suitable for special data-collection applications.

EPI TEK ELECTRONICS LTD.

100 Schneider Road
Kanata, Ontario, Canada
K2K 1Y2

Tel: (613) 592-2240
Telex: 053-3544

Products: custom thin and thick film hybrid microcircuits; audio amplifiers; audio preamplifiers; active filters; single-in-line resistor networks; dual-in-line resistor networks; molded dip resistor networks.

ESMOND MANUFACTURING INC.

455 Milner Avenue, Unit 4,
Scarborough, Ontario, Canada
M1B 2K4

Tel: (416) 299-5090

Products: cable harness, custom-made printed circuit boards.

EXECUTONE LIMITED

331 Bartlett Avenue
Toronto, Ontario, Canada
M6H 3G8

Tel: (416) 531-9961

Products: telephone systems from 5 to 800 telephones; intercom; nurse call systems; public address systems.

EXIDE ELECTRONICS

5200 Dixie Road, Unit 20
Mississauga, Ontario, Canada
L4W 1E4

Tel: (416) 625-9627, 625-7061

Telex: 06-961272

Products: uninterruptible power systems (UPS) — for small, medium and large applications from kilowatts to megawatts — for critical and on-line computer and telecommunications installations, airports, defence installations, satellite ground stations etc.; emergency lighting equipment, interruptible and non-interruptible, from small units to 25kVa; static inverters.



ELINCA COMMUNICATIONS LIMITED groups into one integrated and coordinated whole the combined resources in engineering, manufacturing and project management of several leading Canadian companies in the telecommunications, electronics and civil engineering industries.

Through these resources ELINCA offers to the world telecommunica-

tion systems of the highest reliability, incorporating the most advanced electronic technology. The unique combination of skills, capabilities and experience offered by ELINCA allows it to undertake complete responsibility for the design and implementation of telecommunications networks for telephone, telegraph, teletype, radio and television transmission.

**Elinca Communications Limited/Limitée, 275 Slater Street
Ottawa, Ontario, Canada K1P 5H9 Tel: (613) 233-5671 Tlx: 053-3308**

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EXTEL COMMUNICATIONS (CANADA) LTD.

113 Telson Road
Markham, Ontario, Canada
L3R 1E4
Tel: (416) 475-1693

Products: teleprinters.

F

FAIRCHILD AND STAIRS MANUFACTURING LTD.

Box 667, R.R. No. 5
Gloucester, Ontario, Canada
K1G 3N3
Tel: (613) 526-0820
Telex: 053-4146

Products: industrial computer systems and components for control, monitoring, data acquisition and similar functions; design facilities for electronic black boxes in control and electronics.

FARINON CANADA LTD.

Farinon Division of Harris Corp.
657 Orly Avenue
Dorval, Quebec, Canada
H9P 1G1
Tel: (514) 636-0974
Telex: 05-821893
TWX: 610-422-4122

Products: digital microwave (DM-Series) 2 to 18 GHz, with capacities from 1.5 to 45 Mbit/s for use with North American or CEPT bit rates. Digital Multiplexers are optionally available. Radio/multiplex interfaces fully compatible with standard North American crossconnects can also be used with transmission mediums such as fibre-optics.

Point-to-point microwave radios from 335 MHz to 8-GHz, for 6 to 1320 telephony or equivalent data circuits or video.

Point-to-multipoint distributed microwave radio systems; 335 MHz to 2-GHz for 6 to 120 telephony or equivalent data circuits for a wide variety of rural/urban applications.

FERRANTI-PACKARD ELECTRONICS LTD.

6030 Ambler Drive
Mississauga, Ontario, Canada
L4W 2P1
Tel: (416) 624-3020
Telex: 06-961437

Products: light-reflecting electromagnetic display systems and components, including status

indicators, numeric and alphanumeric display modules, complete turnkey display systems; third-party maintenance devices; telephone-network monitoring systems.

FERRITRONICS LTD.

222 Newkirk Road
Richmond Hill, Ontario, Canada
L4C 3G7
Tel: (416) 884-3180
800-268-3862

Telex: 069-66680
Cable: FERRIC TORONTO

Products: tone signalling modules; encoders and decoders -for mobile radio; digital alarm status monitors; mobile data terminals; automatic identification and vehicle selective calling units.

FILTRAN LTD.

229 Colonnade Road
Nepean, Ontario, Canada
K2E 7K3
Tel: (613) 226-1626
Telex: 053-4957

Products: filter networks designed and manufactured for the telecommunications industry; transformers and inductive components of all types, including power up to 1,000 VA, CSA approved.

FINELINE CIRCUITS LTD.

170 Nantucket Boulevard
Units 1, 2, 3, 4 & 5
Scarborough, Ontario, Canada
M1P 2N9
Tel: (416) 752-4242
Telex: 065-25248

Products: printed circuit boards, from schematic to finished product.

FIRE DEVICES MANUFACTURING LTD.

270 Ferrier St.
Markham, Ontario, Canada
L3R 2Z5
Tel: (416) 475-0213

Products: thermoflex dual action detector, rate of rise and fixed temperature.

FISCHER & PORTER (CANADA) LTD.

134 Norfinch Drive
North York, Ontario, Canada
M3N 1X7
Tel: (416) 667-9800
Telex: 06-969669
Cable: FISHCAPORT

Products: electronic, pneumatic, and distributed process control instrumentation, control panels, flowmeters, digital systems and chlorination equipment.

FISHER CONTROLS CO. OF CANADA LTD.

P.O. Box 578
Woodstock, Ontario, Canada
N4S 7Z6
Tel: (519) 539-9892
Telex: 064-74117

Products: electronic control room, instrumentation and electronic field-mounted instrumentation, primarily for process-control industries.

FORTIN ELECTRONICS CORP.

660 King Edward Street
Winnipeg, Manitoba, Canada
R3H 0P2
Tel: (204) 786-1431

Products: 8-bit and 16-bit micro-computers with extensive line of application software for both.

FOUNDATION ELECTRONIC INSTRUMENTS INC.

1974 Courtwood Crescent
Ottawa, Ontario, Canada
K2C 2B5
Tel: (613) 226-4000

Products: fiber optic data systems, fiber optic video-audio transmission systems, fusion splicing for glass fibers, optical power meters.

Services: consulting and system design.

FOXBORO CANADA INC.

707 Dollard Avenue,
LaSalle, Quebec, Canada
H8N 1S5
Tel: (514) 366-4210
Telex: 055-66302

Products: electronic controls and instrumentation, including control systems, converters, event recorders, gauges, indicators and meters; industrial computers and analytical products.

L.H. FROST LIMITED

1130 - Eighth Line
Oakville, Ontario, Canada
L6H 2R4
Tel: (416) 844-6681

Products: transformers and chokes, in both laminated and ferrite forms, for the electrical and electronic industry; standard and custom designs.

G

GANDALF DATA LIMITED

9 Slack Road
Ottawa, Ontario, Canada
K2G 0B7
Tel: (613) 225-0565
Telex: 053-4728

Products: data-transmission equipment, including modems, for copper wire, fibre-optic and radio channels; intelligent statistical and packet switching multiplexers; PACX data contention switching systems; high-speed intelligent 9600 bps Super/Modem II; and others.

GARRETT MANUFACTURING LIMITED

255 Attwell Drive
Rexdale, Ontario, Canada
M9W 5B8
Tel: (416) 675-1411
Telex: 06-989142
TWX: 610-492-4352

Products: temperature-control systems for aircraft cabins, crew compartments; electronic bays; windshields; emergency locator beacons and personal locator beacons; flight-instrument test sets; custom thin and thick-film hybrid micro-circuits; sub-contract manufacture of electronic assemblies; peripheral-vision display.

GEAC CANADA LTD.

350 Steelcase Road West
Markham, Ontario, Canada
L3R 1B3
Tel: (416) 475-0525
Telex: 06-22874

Products: medium to large on-line computer systems handling up to hundreds of terminals with mass storage billions of bytes; complete systems available for on-line banking, library circulation, pharmacy prescriptions, school board administration, order entry and inventory control; and word processing.

GELECO ELECTRONICS LTD.

2 Thorncliffe Park Drive, Unit 28
Toronto, Ontario, Canada
M4H 1H1
Tel: (416) 421-5631

Products: RF edgewound coils; RF tube coils; RF contactors; tower lighting chokes; lightning chokes; MMB heavy-duty switches; plug-in meter inserts; phase sampling loops; complete antenna tuning and phasing equipment; broadcast antenna and studio design; phase and current sampling transformers; Dan Gibson parabolic microphones, electronic and acoustic.

GENERAL DATACOMM INDUSTRIES (CANADA) LTD.

Suite West 410
2255 Sheppard Avenue East
Willowdale, Ontario, Canada
M2J 4Y3
Tel: (416) 498-5100
Telex: 06-966619

Products: modems, multiplexers and network control systems.

GENERAL INSTRUMENT OF CANADA LIMITED

R.F. Systems Division
65 Waverly Street
Delhi, Ontario, Canada
N4B 1E8
Tel: (519) 582-0710
Telex: 061-81174
Cable: DELMET

Products: self-supporting, bracketed and guyed towers.

GEN-TEC INC.

2625 Dalton Street
Quebec, Quebec, Canada
G1P 3S9
Tel: (418) 651-8000
Telex: 051-31591

Products: peak load stabilizers; demand control systems; TEA CO₂ laser for educational, industrial and research use; joule-meters; HV probe.

GEONICS LTD.

1745 Meyerside Drive
Mississauga, Ontario, Canada
L5T 1C5
Tel: (416) 676-9580
Telex: 06-968688
Cable: GEONICS

Products: geophysical instrumentation, including lightweight portable electromagnetic detec-

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tors; vlf electromagnetic units; multi-frequency helicopter EM systems; airborne vlf electromagnetic exploration systems; high-power, deep-penetration transient EM system; resistivity profiling instrumentation; one-man dipole electro-magnetometer; general electronics.

GEOPROBE LTD.

5-41 Horner Avenue,
Toronto, Ontario, Canada
M8Z 4X4
Tel: (416) 252-5775
Cable: GEOPRO-TORONTO
Telex: 06-967858

Products: maxi-probe EMR-16 multi-frequency electromagnetic geophysical survey systems for ground exploration related to minerals, coal, oil and gas, uranium, geothermal energy, geological mapping, ground-water; geological mapping; structural mapping; construction and foundation work; radioactive and chemical waste disposal.

GEORGE KELK LTD.

48 Lesmill Road
Don Mills, Ontario, Canada
M3B 2T5
Tel: (416) 445-5850
Telex: 06-966670
Cable: KELLEX TORONTO

Products: steel mill hot slab and ingot dimension gauges and sensors for on-line process control, including necessary software; rolling mill tensiometers; AC line-voltage regulators; zwarts-type series of electronic wave/tide and water-level gauges; load cells for roll-force measurement in rolling mills; optical gauges for rolling mills.

GEOTECH LTD.

210 Don Park Road, Unit 2
Markham, Ontario, Canada
L3R 2V2
Tel: (416) 498-5845

Products: Electromagnetic survey systems for geophysical exploration in helicopters.

GLENAYRE ELECTRONICS LTD.

1551 Columbia Street
North Vancouver, British
Columbia, Canada
V7J 1A3
Tel: (604) 980-6041
Telex: 04-352520

Products: microprocessor-based IMTS/MTS/2805 radiotelephone control heads; microprocessor based IMTS/MTS/2805 terminals (1 to 12 channels); DTMF mobile radio control head; DC/DC converters for railroad, mobile radio, telecommunication and industrial applications. High-stability DTMF encoder, MTS and RCC selective signalling decoder; sub-audible encoders and decoders, automatic calling units for computer dial-up. Fully automatic integrated telephone system (ITS) for four-wire private line communications over a variety of links using plug-in modules to facilitate system additions and growth. Single and double-sided printed circuit boards with through-hole plating; custom control and instrumentation panels and consoles for power utilities, mines and industrial plants. Fixed-route vehicle location and identification equipment; computer-aided systems for railroads and open pit mines; rear-of-train air-pressure monitor.

GOODWOOD DATA SYSTEMS LTD.

P.O. Box 210
150 Mill Street
Carleton Place, Ontario, Canada
K7C 3P4
Tel: (613) 257-3610
Telex: 053-3593

Products: GDS 300 controller — multi-terminal display controller; GDS 232 monitor — RS-232C, or CCITT equivalent, monitor; GDS 105 diesel engine monitor — diesel diagnostics monitor; air traffic control system; hydrological systems; computer-assisted learning systems; radar/satellite correlated weather-forecasting system.

GRAPHIC CONTROLS CANADA LIMITED

215 Herbert Street
Gananoque, Ontario, Canada
K7G 2Y7
Tel: (613) 382-2108
Telex: 066-3216

Products: disposable ECG electrodes, ECG patient monitor cables, recording charts, Fetal monitoring electrodes and file systems, electromedical and ultrasound conductive media, file

mount forms; industrial recording charts, non-impact printer papers for terminals, printer/plotters and minicomputers.

GRAPHICO PRECISION

1100 Bellamy Road
Scarborough, Ontario, Canada
M1H 1H2
TWX: 610 492 4371
Tel: (416) 438-6076

Products: printed circuit boards.

GUILDLINE INSTRUMENTS LTD.

Churchill Road
Smiths Falls, Ontario, Canada
K7A 4S9
Tel: (613) 283-3000
Telex: 053-3028

Products: electrical and temperature measuring instruments; voltage and resistance standards; AC/DC transfer standard current and potential transformer test sets; oceanographic instrumentation for pressure, depth conductivity, salinity, pH and dissolved oxygen, laboratory salinometer.

H

HALLCRAFT ELECTRONICS LTD.

1760 Sargent Avenue
Winnipeg, Manitoba, Canada
R3H 0C7
Tel: (204) 786-5846

Products: engineering, supply, installation and maintenance of sound, background music and communication systems; customer assembly facilities.

HAMILTON ENGRAVING CO. LTD.

P.O. Box 181, Station B
24 Clark Avenue
Hamilton, Ontario, Canada
L8L 7V7
Tel: (416) 527-0718

Products: design of printed circuit boards; printed circuit boards; specialty plating — precious metals; machine engraving.

HAMMOND MANUFACTURING CO. LTD.

394 Edinburgh Road North
Guelph, Ontario, Canada
N1H 1E5
Tel: (519) 822-2960
Telex: 069-56523

Products: transformers; chokes; saturable reactors; sheet metal cabinets, consoles, racks, chassis — in all ranges and sizes for the electronics and electrical industries.

HARBOUR INDUSTRIES (CANADA) LTD.

460 Normandie
Farnham, Quebec, Canada
V2N 1W4
Tel: (514) 293-5304

Products: braided shielding; coaxial cable; hook-up wire with Teflon insulation; extra-high-temperature cables; special wire for nuclear-reactor cores; aerospace, avionics wire to mil specs: W-16878, W-22759, W-81381, C-27500.

HARCO ELECTRONICS LTD.

770 Bradford St.
Winnipeg, Manitoba, Canada
R3H 0N3
Tel: (204) 786-6041
Telex: 07-57690

Products: broad range of pre-gelled disposable electrodes, and semi-disposable electrodes; patient cable sets of all types; dental instrument for diagnosing and monitoring periodontal disease (Periotron).

HARRISON, WILLIAMS & ASSOCIATES LTD.

1600 Laperriere Avenue
Ottawa, Ontario, Canada
K1Z 8P5
Tel: (613) 725-0296

Products: 810 display memory — a low-cost logic analyzer that converts any general-purpose oscilloscope into the equivalent of an 8-channel digital-storage scope.

HENOTEX INC.

1625 Chabanel West, Room 980,
Montreal, Quebec, Canada
H4N 2S7
Tel: (514) 382-6120

Products: hand-held metal detector "Lymps 76" for airport, prison and police security; circuit board mounting; custom-built equipment; SID metal detectors for searching parcels.

HERMES ELECTRONICS LTD.

P.O. Box 1005
Dartmouth, Nova Scotia, Canada

B2Y 4A1

Tel: (902) 466-7491

Telex: 019-21744

Products: hf antennas; ionospheric sounder equipment; oceanographic buoys and devices; sonobuoys.

HITECH CANADA LIMITED

Fifth Floor, 1390 Prince of Wales Drive
Ottawa, Ontario, Canada
K2C 3N6
Tel: (613) 226-7800
Telex: 053-3262

Products: optical character recognition (OCR) page readers; word counting and page-processing systems; automated message-handling system.

Services: development of computer systems and applications software for: real-time control systems; radar, Comm and EW simulations; command control systems; database management systems.

HONEYWELL LTD.

155 Gordon Baker Road
Willowdale, Ontario, Canada
M2H 3N7
Tel: (416) 499-6111
Telex: 065-25170

Products: solid-state electric heat controllers, electric heat thermostats, switching relays, lighting control systems, hydronic valves, limit controls.

HUNTEC ('70) LTD.

25 Howden Road, Unit 8
Scarborough, Ontario, Canada
M1R 5A6
Tel: (416) 751-8055
Telex: 06-963640
Cable: HUNTOR TORONTO

Products: induced polarization instruments including microprocessor IP receivers, and low and high-power transmitters for mineral prospecting and resistivity applications; surface and deep-towed marine seismic profiling systems for seabed and sub-bottom engineering and exploration.

Services: marine seismic profiling services for seabed engineering studies and resource inventory.

HYLOGIC INC.

70A Brunswick Boulevard
Dollard-des-Ormeaux, Quebec,

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Canada
H9B 2C5
Tel: (514) 683-9555

Products: single and double-sided printed circuit boards.

IRD MECHANALYSIS LTD.

333 Barton Street East
Stoney Creek, Ontario, Canada
L8E 2L1
Tel: (416) 662-7577
Telex: 061-8453

Products: vibration/noise/spike energy measuring instruments and analyzers; in-place dynamic balancing instruments; vibration/spike energy/temperature/speed/thrust monitors and data-acquisition systems; dynamic balancing machines including roll balancers from 1 lb. to 500,000 lb. rotor weight capacity.

Services: field consulting service for vibration analysis and balancing.

I.S.B.

9365 Pascal Gagnon
Saint Leonard, Quebec, Canada
H1P 1Z4
Tel: (514) 327-5818
Telex: 05-562171

Products: safety equipment including infrared security barriers, electronic controls for presses.

ITT BARTON INSTRUMENTS

3840 - 11A Street North East
Calgary, Alberta, Canada
T2E 6M6
Tel: (403) 276-B164
Telex: 038-21536

Products: process instrumentation, including electronic temperature transmitters, electrical pulse transmitters, recording controllers, indicating switches, indicating controllers, liquid-level systems, corrosion-monitoring systems.

ITT COMMUNICATIONS

175 Dawson Road
Guelph, Ontario, Canada
N1H 1A1
Tel: (519) 821-2000
Telex: 02-956547

Products: telephone sub-sets, key telephone equipment; data telephones; central-office peripheral switching equipment;

postal mechanization — letter-coding desks, letter-sorting machines, mail-conveyor systems; document sorters; business communication systems (PABX).

ITT CANNON ELECTRIC CANADA

Four Cannon Court
Whitby, Ontario, Canada
L1N 5V8
Tel: (416) 668-8881
Telex: 02-2250

Products: electrical/electronic multi-contact connectors for commercial, nuclear, subsea, solar, down-hole mining and drilling, geophysical/seismic, military and aircraft use.

IMAPRO INC.

308 - 1750 Courtwood Crescent
Ottawa, Ontario, Canada
K2C 2B5
Tel: (613) 226-4080

Products: extremely high resolution color and black and white image recorders with 35mm, 70mm and 240mm film format sizes, CIR™ (color image recorder) technology; fibre optics communications and data acquisition system; low cost QCR™ (quick color recorders) products: QCR 240 with 8" by 10" Polaroid output, QCR 120 with 4" by 5" Polaroid output and QCR 35 with 35mm output.

INDUSTRIAL MEASUREMENTS LTD.

3160 Steeles Avenue East
Markham, Ontario, Canada
L3R 4G9
Tel: (416) 474-1246

Products: Telesponder remote alarm system which monitors unattended plant machinery via the dial telephone network.

INTERA ENVIRONMENTAL CONSULTANTS LTD.

400 - 7015 Macleod Trail
Calgary, Alberta, Canada
T2H 1X9
Tel: (403) 253-8895
Telex: 03-824537

Products: airborne sensors and data acquisition systems for the environmental and resource sciences, research, monitoring and surveillance; surface environmental sensors and data acquisition systems; data processing and

analysis; groundwater contamination and air-quality engineering and consulting services.

INTERCONTINENTAL DATA CONTROL CORP. LTD. (INTERDACO)

2373 Stevenage Drive
Ottawa, Ontario, Canada
K1G 3W1

Tel: (613) 733-4440
Telex: 053-4274

Products: time division multiplex (TDM) systems; frequency division multiplex (FDM) systems; 24-channel terminals to all CCITT recommendations; 18-channel terminals to North American standards; single-channel subscriber sets; speech plus duplex systems; data sets; limited-distance modems; DC-DC converters; telegraph power supplies; hubbing systems; regenerative repeaters; telegraph sequential selectors; polar adapters; remote loop-back devices; special telegraph test sets; telex auto-dialers; patch and test racks; 2-4 wire adapters; 2-4 wire terminating sets; line conditioning equipment, EIA current converters etc.

INTERIMCO TECHNOSYSTEMS INC.

130 Albert Street, Suite 1600
Ottawa, Ontario, Canada
K1P 5G4

Tel: (613) 234-2491
Telex: 053-3833

Products: installation and field servicing related to overseas civil aviation and telecommunications projects.

INTERNATIONAL SYSTCOMS LTD.

4900 Fisher Street
Montreal, Quebec, Canada
H4T 1J6

Tel: (514) 735-6441
TWX: 610-422-3065
Cable: SYSCOMS

Products: vhf and uhf radio telephone equipment including mobile, portable, fixed station and rural radio; X.25 data-communications processors; statistical multiplexers.

INTERNAV LTD.

Point Edward Marine & Industrial Park
P.O. Box 1261

Sydney, Nova Scotia, Canada
B1P 6K3

Tel: (902) 539-0660
Telex: 019-35126

Products: Loran C navigating receivers and related marine equipment.

J

J.L. ELECTRON LIMITED

135 St-Germain Ouest
Rimouski, Quebec, Canada
G5L 4B6

Tel: (418) 724-6800

Products: micro and mini computers, access-control systems; data-acquisition buoy; programmable samplers; language laboratories.

K

KB ELECTRONICS LIMITED

150 Bluewater Road
Bedford, Nova Scotia, Canada
B4B 1G9

Tel: (902) 835-7268
Telex: 019-21779

Products: industrial/marine power supplies; converters; battery chargers; watch receivers; EPIRBS, aviation ELT's; communication consoles; custom consoles; entertaining/paging consoles; static inverters.

KELCEE COMMUNICATIONS INC.

48 Galaxy Boulevard
Rexdale, Ontario, Canada
M9W 6C8

Tel: (416) 675-9222

Products: video teleconferencing; video switching equipment.

KERR-GINGE CANADA LTEE.

103 Avenue Gun
Pointe Claire, Quebec, Canada
H9R 3X2

Tel: (514) 697-8002
Telex: 05-821609

Products: Marine fire alarm systems.

KONAR CORP.

123 Manville Road
Scarborough, Ontario, Canada
M1L 4J8

Tel: (416) 751-5980
Telex: 06-363542

TWX: 610 492 2728

Products: printed circuit boards.

L

LAB-VOLT LTD.

4555 Metropolitan East
Montreal, Quebec, Canada
H1R 1Z4

Tel: (514) 376-2120
Telex: 05-25415

Products: power supplies; measuring devices; RLC loading units; electromechanical systems (motor/generator); control systems utilizing various components for the teaching of controls as they relate to electric power technology; mobile training laboratories; digital trainers; electronic teaching systems; computer technology.

LANICO INDUSTRIES LTD.

P.O. Box 398
Don Mills, Ontario, Canada
M3C 2S7

Tel: (416) 438-6465
Telex: 065-25461

Products: conductivity controls; conductivity meters; conductivity probes; liquid level controls; liquid level probes; detergent dispensing controls; meters and accessories for large dishing machines; substitution boxes for resistance, capacitance, inductance and zener-diode.

LARCAN COMMUNICATIONS EQUIPMENT LTD.

396 Attwell Drive,
Rexdale, Ontario, Canada
M9W 5C3

Tel: (416) 675-7517

Products: VHF/UHF television and broadcast transmitters for all power levels. VHF slot antennas; VHF/UHF filters and combiners.

LAZARE ELECTRONICS LTD.

15887 Gouin Boulevard West
Ste. Genevieve, Quebec, Canada
H9H 1C5

Tel: (514) 620-1230

Products: power transformers up to 10kVA; inductors; chokes; ferroresonant transformers, single phase and three phase, 50 Hz up.

LAZER-TECH LTD.

235 Nugget Avenue
Scarborough, Ontario, Canada
M1S 3L3

Tel: (416) 291-7727
Telex: 065-25308

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Products: printed circuit boards; custom silk screening.

LEBLANC & ROYLE COMMUNICATIONS LTD.

P.O. Box 880
514 Chartwell Road
Oakville, Ontario, Canada
L6J 5C5

Tel: (416) 844-1242
Telex: 06-982226
TWX: 610-495-2676

Products: communications towers; antenna performance measurements; heavy microwave and television transmission towers, both guyed and self-supporting; complete installation, maintenance and inspection service.

LEECRAFT INDUSTRIES LTD.

2050 Ellesmere Road
Scarborough, Ontario, Canada
M1H 3A9

Tel: (416) 439-6320
Telex: 065-25428

Products: light indicator assemblies; lamp sockets; telephone cables; jacks; jack panels; jack fields; coaxial plugs and sockets (750 hm); toroidal coils; miniature low pressure switches; digital cross-connect panels.

LEEDS & NORTHRUP CANADA

A Division of General Signal Ltd.
41 Constellation Court
Rexdale, Ontario, Canada
M9W 1K4

Tel: (416) 675-7700

Products: industrial curve drawings; multipoint recorders; transmitters; controllers final drive devices; liquid analysis; gas analysis; particle size measuring calibration and test equipment; distributed control, digital indicators, thermocoupler RTD's, radiation pyrometers.

LEIGH INSTRUMENTS LTD.

Industrial Products Division

350 Weber Street North
Waterloo, Ontario, Canada
N2J 4E3

Tel: (519) BB4-4510
Telex: 069-55440

Products: postal products — automated postal systems (optical character recognition, video character recognition, automatic sortation, electronic optical

scanning devices, software packages and peripheral, inkjet printer, bar code reader devices); communications products — telex and computer I/O terminals; high-technology fabrication, electronic assembly.

Engineering & Aerospace Division

P.O. Box 82
Carleton Place, Ontario, Canada
K7C 3P3
Tel: (613) 257-3883 / (613) 238-4400
Telex: 053-4148

Products: avionics systems; airfoil delivery systems, crash position indicators, flight data recorders, contained crash recorders, deployable crash recorders, cockpit voice recorders; avionics flight instrumentation: altimeters, mechanical strain recorders, ice detectors; specialized navigation instruments: safety and marker beacons, satellite beacons, radio detection (VHF) equipment, display and control systems, vessel traffic management systems, air traffic control systems.

Frequency Control Division /

C.R. Snelgrove Company
141 Bond Avenue
Toronto, Ontario, Canada
M3B 1M2

Tel: (416) 447-8531
Telex: 069-66626

Products: quartz crystals; temperature-controlled crystal ovens; filter ovens crystal filters; monolithic filters; packaged oscillators; frangible switches; frequency synthesizers; glass-to-metal hermetic seals; stand-offs; multi-terminal headers; crystal, transistor and diode bases and end seals; nuclear radiation resistant connectors.

LEIGH NAVIGATION SYSTEMS LTD.

7 Bovis Drive
Pointe Claire, Quebec, Canada
H9R 4W3

Tel: (514) 695-8130
Telex: 05-821529

Products: air traffic control systems, including radar approach control, fixed and mobile control towers, air navigation aids such as TACAN.

LEITCH VIDEO LTD.

10 Dyas Road
Don Mills, Ontario, Canada
M3B 1V5
Tel: (416) 445-9640
Telex: 06-986241

Products: television terminal equipment, master clock systems, audio-video scrambling/de-scrambling systems.

LENBROOK INDUSTRIES LTD.

1145 Bellamy Road
Scarborough, Ontario, Canada
M1H 1H5
Tel: (416) 438-4610
Telex: 065-25485

Products: vhf/uhf am/fm commercial 2-way radios, low and high power portables, aviation ground control radios.

LIGHTING CIRCUITS ELECTROHOME LTD.

P.O. Box 940, Victoria Street
Niagara-on-the-Lake, Ontario,
Canada
L0S K1O
Tel: (416) 468-7663

Products: single-sided, print and etch, high-volume printed circuit boards.

LINDSAY SPECIALTY PRODUCTS LTD.

50 Mary Street West
Lindsay, Ontario, Canada
K9V 4S7
Tel: (705) 324-2196
Telex: 0-6962-860

Products: VHF and UHF domestic and CATV antennas; CATV line splitters and couplers; CATV directional multi-taps; complete line of CATV passive devices including matching transformers; and splitters; a complete line of CATV trunk distribution and apartment amplifiers (one- and two-way); subscriber cordless, corded, and V to U converters, commercial heavy-duty antennas, 2 GHz transmitters, receivers, antennas; TVRO 4-GHz antennas 8, 10, 12, 15-ft., LNAs, receivers; DBS antennas, low-power TV transmitters and antennas.

LINEAR TECHNOLOGY INC.

3435 Landmark Road
Burlington, Ontario, Canada
L7M 1T4
Tel: (416) 335-2996

Telex: 061-8525

Cable: LINEARBUR

Products: linear monolithic integrated circuits for low-power and low-voltage applications and general-purpose op amps, electret microphone buffers; custom and semi-custom linear monolithic integrated circuits.

LIONMOUNT & CO. LTD.

315 Albany Avenue
Toronto, Ontario, Canada
M5R 3E2
Tel: (416) 537-9874
Telex: 065-25481 ROVIX-TOR

Products: decade capacitance, resistance and inductance boxes for use in industry, research and education.

LISLE-METRIX LTD.

49 Sheffield Street
Toronto, Ontario, Canada
M6M 3E5
Tel: (416) 249-9151
Telex: 06-969682

Products: conductivity, pH and turbidity process-control instrumentation.

LITTON SYSTEMS CANADA LTD.

25 Cityview Drive
Rexdale, Ontario, Canada
Tel: (416) 249-1231
Telex: 06-989406
TWX: 610-492-2110
Cable: LITTCAN

Products: airborne inertial navigation systems; airborne area navigation systems; special purpose airborne computer systems; tactical data systems; air traffic control and ground controlled interception training simulators and other special purpose training simulators; automatic, portable and factory test equipment; airborne search radar; self-contained flight-inspection systems; flat panel multi-function cockpit displays; command, control and communications systems; and integrated security systems.

LLOYD CONTROLS LTD.

3046 Westwood Street
Port Coquitlam, British Columbia,
Canada
V3C 3L7
Tel: (604) 464-8505
Telex: 04353563

Products: industrial process-control systems for speed, torque, position controls; counting, real-time minicomputer systems for processes; variable speed DC, AC synchronous motor controls; sawmill and veneer-mill V-S dries with or without digital speed or position controls; hydraulic positioners.

LUMITROL LTD.

5 Walker Avenue
Toronto, Ontario, Canada
M4V 1G3
Tel: (416) 921-6060

Products: television studio lighting and dimming systems, grid and track-systems, studio drapes; design, installation and service; specializing in dimmers for theatres, TV studios and architectural lighting applications.

LUMONICS INC.

105 Schneider Road
Kanata, Ontario, Canada
K2K 1Y3
Tel: (613) 592-1460
Telex: 053-4503

Products: high energy pulsed TEA CO₂ lasers for spectroscopy, materials research, propagation studies and plasma/fusion research; lasers operating with such gases as carbon monoxide, hydrogen fluoride, hydrogen bromide and deuterium fluoride; industrial lasers for use in production marking of a variety of non-metallic surfaces; excimer UV/Vl's pulse lasers for research.

LYNCH-TRANSCOM INC.

239 Belanger Street
St. Jerome, Quebec, Canada
J7Y 1K7
Tel: (514) 436-6225
Telex: 05-839531

Products: negative-impedance-type voice-frequency repeaters (telephone industry application — toll and extended-area service, long subscriber-loop service, special services); loop signalling extenders (for extension of telephone central-office subscriber loop limits to 1,800 ohms); booster power modules (for extension of telephone central office subscriber loop limits to

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3,000 ohms); bridge lifters;
impedance compensators; fuse
and alarm panels.

M

MA ELECTRONICS CANADA LTD.

3135 Universal Drive
Mississauga, Ontario, Canada
L4X 2E7
Tel: (416) 625-4605
TWX: 610-492-4317

Products: components for terrestrial microwave communication systems — isolators, circulators, switches, solid-state control devices, couplers, filters; components for satellite earth stations — GaAs FET LNAs, antennas, high-power terminations, high-power combining networks, high-power diplexers, medium-power amplifiers, transmit/reject filters.

MCM COMPUTERS LTD.

6815 Rexwood Rd. Unit 9
Mississauga, Ontario, Canada
L4V 1R2
Tel: (416) 678-7854
Telex: 06-983623

Products: Microcomputers using the APL programming language, 1 to 30 million characters of storage. Virtual memory computers based on the "Distributed Processor" concept.

MDI MOBILE DATA INTERNATIONAL INC.

210 - 10991 Shellbridge Way
Richmond, British Columbia,
Canada
V6X 3C6
Tel: (604) 278-3556
Telex: 04-355865

Products: mobile data-communications systems for speed and accuracy of digital data transmission over VHF/UHF FM radio links; systems include rugged mobile data terminals with (video) CRT display and QWERTY keyboard and optional hard-copy printer, and associated communications equipment; application areas include fleet management and control for police, security, fire, mobile maintenance, courier dispatch, materials handling, etc.

MPB TECHNOLOGIES INC.

21051 North Service Rd.
P.O. Box 160
Ste. Anne de Bellevue, Quebec,
Canada
H9X 3L5
Tel: (514) 457-2035

Products: Electronic graphic systems for broadcast applications (including microprocessor-controlled character generators and encoders) and for business applications (graphics composition and computer file data accessing and formatting); communications terminals.

M.S.C. ELECTRONICS LTD.

254 Wildcat Road
Downsview, Ontario, Canada
M3J 2N5
Tel: (416) 661-4180
Telex: 06-23494

Products: electronic equipment and systems and systems engineering; turnkey facilities for radio and television stations.

MacDONALD, DETTWILER & ASSOCIATES LTD.

3751 Shell Road
Richmond, British Columbia,
Canada
V6X 2Z9
Tel: (604) 278-3411
Telex: 04-355599

Products: remote sensing data acquisition systems; satellite ground stations for reception and processing of earth resources from LANDSAT data; meteorological data systems; air/shipborne and submersible data acquisition systems; image analysis systems for classification and precision registration of LANDSAT data; digital data acquisition systems for environmental sensing; synthetic aperture radar; data communications systems for: airline flight planning and dispatch, public safety, real-time weather information, vehicular data terminals; remote job entry terminals, digital film image recorders.

MAGNA INTERNATIONAL INC.

355 Wildcat Road
Downsview, Ontario, Canada
M3J 2S3
Tel: (416) 661-1485

Products: electronic chassis and sub-assemblies for aerospace;

aluminum dip brazed assemblies; machined pure beryllium; cartridge and propellant activated devices for aircraft escape systems.

MAGNETIC METALS LTD.

10 Spalding Drive
Brantford, Ontario, Canada
N3T 5T3
Tel: (519) 753-8675
Telex: 061-8126

Products: laminations for electric motors and transformers.

K.O. MAIR ASSOCIATES LTD.

145 Spruce St.
Ottawa, Ontario, Canada
K1R 6P1
Tel: (613) 238-7766
Telex: 053-4916

Products: Specializes in Digital's LSI-11 family of microcomputers; packaging, special I/O modules and options.

MARK PRODUCTS LTD.

1108 - 5th Avenue NE
Box 73, Str. "M"
Calgary, Alberta, Canada
T2P 2G9
Tel: (403) 275-3544

Products: seismic cables and geophone arrays.

MATROX ELECTRONIC SYSTEMS LTD.

5800 Andover Avenue
Town of Mount Royal, Quebec,
Canada
H4T 1H4
Tel: (514) 735-1182
Telex: 05-825651

Products: graphics and alpha-numeric plug-in modules and video boards in both black and white and in color for the industry's most popular buses; modular OEM computers based on Z-80A (8-bit) and 8086 (16-bit) CPU; memory boards, floppy-disk interfaces, special boards, system chassis, etc.

MAXTOWER CO. LTD.

5 Edmondson Street,
Box 277,
Brantford, Ontario, Canada
N3T 5M8
Tel: (519) 752-6501
Telex: 061-81135

Products: radio, television and communication towers and mounting hardware.

R.C. MAYBEE LTD.

P.O. Box 40,
Oakville, Ontario, Canada
L6J 4Z5
Tel: (416) 637-6261
Telex: 061-8975

Products: polygauge digital magnetic thickness sensors.

MCCURDY RADIO INDUSTRIES LTD.

108 Carnforth Road
Toronto, Ontario, Canada
M4A 2L4
Tel: (416) 751-6262
Telex: 06-963533
Cable: MACMETAL

Products: complete broadcast audio line including solid-state consoles, production centres, components, packages and accessories; solid-state intercom systems; pre-wired jackfields; audio distribution systems; audio switchers, consoles, amplifiers and speaker units for educational systems.

McNEILL ELECTRONICS LTD.

19 Colville Road
Toronto, Ontario, Canada
M6M 2Y2
Tel: (416) 247-7429

Products: transformers — toroidal, pot-core, rf; chokes.

McPHAR GEOPHYSICS

55 Tempo Avenue
Willowdale, Ontario, Canada
M2H 2R9
Tel: (416) 497-1700
Telex: 065-25305

Cable: McPHAR TORONTO

Products: airborne, ground and drill hole geophysical instruments for minerals and petroleum exploration; portable proton precession and fluxgate magnetometers; portable scintillometers and gamma ray spectrometers; airborne multi-channel spectrometers; drill hole logging systems; airborne and ground electromagnetic systems; induced polarization and resistivity equipment; analog and digital recording systems; minicomputer data acquisition systems; self-potential ground systems.

McQUEEN TECHNOLOGY CORP. LTD.

93 Regal Road
P.O. Box 1850
Guelph, Ontario, Canada
M1H 7A1
Tel: (519) 836-1010

Products: line-monitoring equipment.

MECHRON ENGINEERING PRODUCTS LTD.

2437 Kaladar Avenue
Ottawa, Ontario, Canada
Tel: (613) 733-3855
Telex: 053-4271

Products: auxiliary and prime-source power systems for telecommunications; communication dc power supplies and distribution; rotary uninterruptable power supply systems — all available in self-contained modules.

MECHTRONICS RESEARCH CORPORATION

1727 West 2nd Avenue
Vancouver, British Columbia,
Canada
V6J 1H8
Tel: (604) 736-2671
Telex: 04-508777

Products: marine controls and instruments; 360° steerable propulsion controls; multiplex alarm-monitoring system; propulsion telegraph; industrial automated process controls.

MEGA SYSTEM DESIGN LTD.

1766 Midland Avenue
Scarborough, Ontario, Canada
M1P 3C2
Tel: (416) 751-1935

Products: custom-designed electronic devices; electromechanical and specialized custom machinery and equipment; microwave industrial dryers; microwave moisture sensors; special-purpose applicator chambers and power supplies; custom small precision machinery.

MEMOTEC

4940 Fisher Street
Montreal, Quebec, Canada
H4T 1J5
Tel: (514) 738-4781
Telex: 05-825625

Products: network processors for X.25 packet switching networks; X.25 statistical multiplexers; X.25

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mini nodes; support of asynchronous and synchronous protocols, including IBM 3270, BSCIII.

MESOTECH SYSTEMS LTD.

2830 Huntington Place
Port Coquitlam, British Columbia,
Canada
V3C 4T3
Tel: (604) 464-8144
Telex: 04-353637

Products: underwater acoustic equipment, including sonar, positioning systems, underwater telephones, acoustic releases, transponders, pingers, acoustic telemetry.

MICRODESIGN LIMITED

36B Prince Arthur Avenue
Toronto, Ontario, Canada
M5R 1A9
Tel: (416) 922-4180

Products: microprocessor-based telecommunications products; satellite ground stations; computer graphic terminals; product design services.

MICROTRONIX SYSTEMS LTD.

120 Bessemer Road
London, Ontario, Canada
N6E 1R2
Tel: (519) 681-3430

Products: custom-designed and built equipment for the telephone industry.

MILLER COMMUNICATIONS SYSTEMS LTD.

300 Legget Drive
Kanata, Ontario, Canada
K2K 1Y5
Tel: (613) 592-3020
Telex: 053-4164

Products: low-cost satellite ground stations; voice and data modem equipment; forward error-correcting coding equipment; phase lock loop receivers; TV multiplexer; teleconferencing systems via satellite; HF radio receivers; TDMA channel equipment; defense-related electronics.

MILLTRONICS

730 The Kingsway
Peterborough, Ontario, Canada
K9J 6W6
Tel: (705) 745-2431
Telex: 06-962851

Products: conveyor scales; feed-

rate control system; flow metering; level measuring; monitors; tachometers; tilt switches; transducers; data-acquisition systems.

MINI-PERIPHERALS INC.

2224 Innes Rd.
Ottawa, Ontario, Canada
K1B 4C4
Tel: (613) 837-2410
Telex: 053-4979

Products: microprocessor-based numeric controllers, vending-machine controllers, small-business systems, pollution-control systems, custom Winchester add-ons, touch-sensitive keyboards, RS-232 floppy disk files, interfaces, add-on RAM memory boards.

MIRA ELECTRONICS LTD.

Box 2145, Station B
Scarborough, Ontario, Canada
M1N 2E5
Tel: (416) 265-3020

Products: data-communications controllers; various-purpose including data encryption.

MIRTONE INDUSTRIES LTD.

425 Alness Street,
Downsview, Ontario, Canada
M3J 2H4
Tel: (416) 667-1211
Telex: 06-217501

Products: apartment, fire alarm and communication systems.

MITEC ELECTRONICS LTD.

104 Gun Avenue,
Pointe Claire, Quebec, Canada
H9R 3X3
Tel: (514) 694-8666
TWX: 610-421-3572

Products: microwave components and subsystems for the telecommunications industry, satellite communications, and military applications.

MITEL CORP. LTD.

P.O. BOX 13089
Kanata, Ontario, Canada
K2K 1X3
Tel: (613) 592-2122
Telex: 053-4596
TWX: 610-562-8529
Cable: MITELCAN

Products: telephone signalling converter equipment including tone to pulse; DTMF and MF

receivers; tone generators, toll denial system; speed dialer system; key system intercom; line event displays; R2 forward and backward receivers, rural telecoms equipment; PBX; security equipment; CMOS integrated circuits, including Telecom LSI, microprocessor and memory, interface, and display; thickfilm hybrid Telecom circuits; ISO-CMOS VLSI.

MONITEQ LTD.

630 Rivermede Road
Concord, Ontario, Canada
L4K 1B6

Tel: (416) 669-5334

Cable: Monteq Toronto

Products: stack monitors for CO/CO₂; ambient monitors for various gases; remote sensors.

MOSAID INC.

Box 13579

Kanata, Ontario, Canada

K2K 1X6

Tel: (613) 836-3134

Telex: 053-4986

Products: design and assembly of silicon chips.

MOTOROLA CANADA LTD.

3125 Steeles Avenue East
Willowdale, Ontario, Canada
M2H 2H6

Tel: (416) 499-1441

Telex: 065-25191

Cable: MOTOROLA

Products: VHF and UHF mobile-radio products including base, mobile, portable and paging equipment and accessories; VHF and UHF radio-relay products including point-to-point multi-channel equipment and accessories; alarm and control system.

MUIRHEAD SYSTEMS LTD.

50 Galaxy Boulevard, Unit 4
Rexdale, Ontario, Canada
M9W 4Y5

Tel: (416) 675-7450

Telex: 06-989264

Products: custom design and manufacture of graphic processing and facsimile communication systems: facsimile switching systems; meteorological radar remoting; computer facsimile interface; compact airborne and shipboard facsimile transmitters.

MULTI-VOX LTD.

9967 St. Michel Boulevard
Montreal, Quebec, Canada
H1H 5G7

Tel: (514) 321-3131

Products: intercommunication systems for commercial, industrial, educational and institutional applications; complete line of solid-state commercial amplifiers; sound columns.

MURATA ERIE NORTH AMERICA INC.

5 Fraser Avenue
Trenton, Ontario, Canada
K8V 5S1

Tel: (613) 392-2581

Telex: 06-62279

Products: high-voltage power supplies, voltage multipliers and rectifiers; electromagnetic interference filters; ceramic capacitors; filter connectors.

N

NCR CANADA LTD.

6855 Century Avenue
Mississauga, Ontario, Canada

Tel: (416) B26-9000

Telex: 06-960147

Products: company designs, develops and manufactures financial document-processing systems for the international financial community.

NABU COMMERCIAL TERMINALS

330 Weber Street North
Waterloo, Ontario, Canada
N2J 3H6

Tel: (519) 884-9300

Telex: 069-55327

Products: alphanumeric terminals and peripheral equipment featuring modular design, software programs that allow overseas distributors to make customized terminal modifications. Terminals can be supplied with national character sets and communication-code protocols.

NABU MANUFACTURING CORP.

485 Richmond Rd.
Ottawa, Ontario, Canada
K2A 3Z2

Tel: (613) 725-3300

Telex: 053-4894

Products: cable converters and

cable-network-compatible personal computers for home and small-business use. At cable head-end, NABU offers full database and communications facility within local system (using Telidon) and access to remote databases.

NATIONAL ELECTROLAB LTD.

1536 Columbia Street
North Vancouver, British
Columbia, Canada
V7J 1A4

Tel: (604) 985-0511

Telex: 043-52683

Products: AM broadcast: AM RF amplifiers; off-air receivers; telephone instruments: recorder-controller for monitoring of telephone signalling; T1 PCM error generator; T1 cable test set; engineering and installation services; design and manufacture of custom instruments and equipment; repair, overhaul and calibration of electrical and electronic instruments, test equipment, meters, etc., for science, government and industry; electrical metrology lab for precise calibration.

NAUTICAL ELECTRONIC LABORATORIES LTD.

RR No. 1 Tantallon
Halifax County, Nova Scotia,
Canada

B0J 3J0

Tel: (902) 823-2233/4

Telex: 019-22552

Products: solid-state LF non-directional radio-beacon systems for aeronautical and marine navigation with output powers up to 4 kW; beacon monitor receivers; automatically tuned LF/MF antenna systems; solid-state broadcast transmitters; LF, MF and HF solid-state communications transmitters.

NAVTEL LTD.

8481 Keele Street
Unit 11

Concord, Ontario, Canada
L4K 1B1

Tel: 669-9918

Telex: 06-964610

Products: data communications test equipment.

NEOSID (CANADA) LTD.

10 Vansco Road
Toronto, Ontario, Canada

Canada in the world of electronics

M8Z 5J4
Tel: (416) 251-2831
Telex: 06-986766 ATN NEOSID
Cable: NEOSID

Products: electronic-powdered iron and ferrite core components; microwave materials.

NIFE-POWERTRONIC CORP.

125 Nantucket Boulevard
Scarborough, Ontario, Canada
M1P 2N8

Tel: (416) 757-5151
Telex: 06-963757

Products: battery chargers/rectifiers; inverters; uninterruptible power supplies; voltage regulators; AC-DC converters; frequency converters; nickel-cadmium batteries.

NORAM QUALITY CONTROL & RESEARCH EQUIPMENT LTD.

103 Gun Avenue
Pointe Claire, Quebec, Canada
H9R 3X2

Tel: (514) 694-4522
Telex: 05-822730

Products: electronic equipment for specialized physical testing in pulp and paper industry.

NORMEX INTERNATIONAL INC.

1930 Champlain St.
Montreal, Quebec, Canada
H2L 2S8

Tel: (514) 526-1637
Telex: 055-61968

Products: Plant automation systems, conveyor automation, programmable controllers, meteorology data-acquisition equipment.

NORPAK LTD.

10 Hearst Way
Kanata, Ontario, Canada
K2L 2P4

Tel: (613) 592-4164
Telex: 053-4174

Products: interactive computer graphics and image-processing systems; Telidon videotex system hardware; electronic slide projection systems.

Services: page-designing and page-creation services and operator training; design and manufacture of systems for educational applications and process control, and computer-aided design systems for industrial and commercial use.

NORTHERN TECHNOLOGIES

20 Steelcase Rd. W. Unit 12
Markham, Ontario, Canada
L3R 1B2

Tel: (416) 495-6940

Products: computer terminals, microcomputer boards, custom interfaces, miscellaneous cables.

NORTHERN TELECOM LTD.

33 City Centre Drive
Mississauga, Ontario, Canada
L5B 3A2

Tel: (416) 275-0960
TWX: 610-492-4388

Products: common-control crossbar telephone switching exchanges; stored-program electronic digital and analog telephone switching exchanges; microwave radio and coaxial transmission systems — long and short-haul; light and heavy route multiplex — digital and analog; private branch exchanges — crossbar and analog and digital electronic; digital data switching system; distributed data processing and terminal equipment; key telephone systems; business interphone systems; telephone sets — business and residential; integrated voice and data systems; telephone head sets — lightweight and standard; coin telephone sets — box and panel; test equipment; connecting blocks; loading coils; filters; protectors; power plants; amplifiers. Fiber optics systems for telecommunications applications. Product trade names include the SL Family of digital business communications systems; Pulse — a PBX; Imagination, Contempra and Logic telephone apparatus and Companion, a handsfree speakerphone; DMS, a complete family of digital transmission and central office switching exchanges; DMS-1 and DMS-1A digital subscriber carrier systems; and TOPS, the traffic operator position system, a member of the SP-1 family of switches; SL-10 data packet switching system; Display-phone integrated voice and data terminal.

NORTHWAY-GESTALT CORP.

1450 O'Connor Drive
Toronto, Ontario, Canada
M4B 2V2

Tel: (416) 755-1141

Telex: 06-963518
Cable: NORTHWAY TORONTO
Product: photomapper.

NOVATECH DESIGNS LTD.

830 Pembroke Street
Victoria, British Columbia,
Canada
V8T 1H9
Tel: (604) 381-1121
Telex: 049-7390

Products: design and manufacture of radio direction-finding equipment, tensionometers, which monitor water quality in fish hatcheries.

NOVATRONICS OF CANADA LTD.

P.O. Box 610
677 Erie Street
Stratford, Ontario, Canada
N5A 6V6
Tel: (519) 271-3880
TWX: 610-355-8717

Products: high performance stepper motors with special shafts for computer and printer applications; electromagnetic wheel-type digital indicators for high readability requirements; power failure flags; fast response industrial DC motors and amplifier systems for automatic positioning; synchros, servos and DC control motors; precision electromechanical components.

NOVAX INDUSTRIES CORP.

658 Derwent Way
New Westminster, British
Columbia, Canada
V3M 5P8
Tel: (604) 525-5644
Telex: 04-351168

Products: microcomputer-based industrial and traffic signal control equipment; telephone power equipment.

NUMEC LTD.

96 Bowes Road
P.O. Box 862
Concord, Ontario, Canada
L4K 1C8
Tel: (416) 669-2579

Products: Airborne geophysical data acquisition systems, drill-hole equipment, magnetometers, electromagnetic systems.

NU RAD INSTRUMENTATION

93 Brahms Avenue
Willowdale, Ontario, Canada

M2H 1H5
Tel: (416) 493-8788

Products: radiation counter used in monitoring radon gas in mines.



OMNITECH GRAPHICS SYSTEMS INC.

880 Wellington Street, 7th floor
Ottawa, Ontario, Canada
K1T 1H5
Tel: (613) 232-1747
Telex: 053-4332

Products: CAD/CAM systems for architectural, land development, mechanical drafting, harness assembly, wiring diagrams, printed circuit boards, service bureaus, plant layout complete with an integrated relational data-base capability and materials and costing take-offs.

OPTOTEK LTD.

1283 Algoma Road
Ottawa, Ontario, Canada
K1B 3W7
Tel: (613) 746-3100
TWX: 610-562-1916

Products: solid-state light-emitting device for applications such as alphanumeric displays, film and paper annotation, failure warning, integral lighting lamps, and card and tape readers; light-emitting diodes (solid-state) high-resolution multi-mode matrix displays; electronic subsystems for the above; and, under research and development, CMT/IR detectors and gallium arsenide field effect transistors (FET).

ORCATECH INC.

2680 Queensview Drive
Ottawa, Ontario, Canada
K2B 8H6
Tel: (613) 820-9602
Telex: 053-3868

Products: graphic computer system combines high resolution, monochrome and color raster graphics.

OVAAC8 INTERNATIONAL (CANADA) INC.

4800 Dufferin Street
Suite 202
Downsview, Ontario, Canada
M3H 5S9
Tel: (416) 661-5088
Telex: 06-217652

Products: digital image-processing and information-management and control systems for analysis, classification and radiometric/geometric correction of satellite, aircraft, microscope, x-ray, and other digital image data. Systems provided in turnkey packages with wide range of data input/output equipment options. High-speed programmable processor to improve performance of minicomputers. High-speed processor for special-purpose data processing also requiring complex control and data I/O manipulations.

OWL INSTRUMENTS LTD.

61 Alness Street
Downsview, Ontario, Canada
M3J 2H2
Tel: (416) 661-1586
Cable: OWLINST

Products: radio-frequency lesion makers; intensive care monitoring system; heart-rate indicators; aerobic fitness tester; exercise equipment.



P C WORLD CIRCUITS INC.

250 Finchdene Square
Scarborough, Ontario, Canada
M1X 1A5
Tel: (416) 299-4000

Products: printed circuit boards.

P.G. ELECTRONICS

Division of Abcal Ltd.
90 Signet Drive, Unit 19
Weston, Ontario, Canada
M9L 1T4
Tel: (416) 741-7682

Products: receiver multicouplers, preamplifiers, power amplifiers to 220 MHz and 100 watts, band-pass filters for mobile applications.

PSB SPEAKERS INC.

480 Dutton Drive
Waterloo, Ontario, Canada
N2L 4C6
Tel: (519) 884-5440

Products: loudspeaker systems.

PACIFIC METER INC.

P.O. Box 1011, Station A
Delta, British Columbia, Canada
V4M 3T2
Tel: (604) 943-8315

Canada in the world of electronics

Telex: 04-355709

Products: SONIC-1010® doppler-effect ultrasonic flowmeters — portable and fixed-installation flowmeters for process control, sewage and waste-treatment plants, as well as other applications within industrial, commercial and municipal areas.

PAISLEY RESEARCH LTD.

135 Torbay Road
Markham, Ontario, Canada
L3R 1G7
Tel: (416) 475-7798

Product: loudspeakers.

PAN CANADA MAGNETICS LTD.

1072 Rangeview Road
Port Credit, Ontario, Canada
L5E 1H3
Tel: (416) 278-9851
Telex: 06-960159

Products: audio magnetic recording tape, including hubwound tape for loading cassettes and cartridges.

PATRICK COMPUTER SYSTEMS INC.

11 Plymouth St.
Winnipeg, Manitoba, Canada
R2X 2V5
Tel: (204) 632-9128
Telex: 07-55731

Products: iC 436 computer. Multi-user, multi-tasking; 131 solid-state programmable keyboard; four disk drives, 4Z-80A microprocessors, 114K byte (RAM) memory, one daisywheel printer.

PAYTON ASSOCIATES LTD.

120 Milner Avenue, Unit 9
Scarborough, Ontario, Canada
M1S 3R2
Tel: (416) 298-9600
Telex: 065-25312

Products: medical electronics, particularly aggregation modules used in testing blood plasma.

PERLE SYSTEMS LTD.

360 Tapscott Road
Scarborough, Ontario, Canada
M1B 3C4
Tel: (416) 299-4999
Telex: 065-26123

Products: microprocessor-based electronic subsystems, PDS 327 series protocol converters ASCII to Bisync/SMA, PDS 400 ATM trans-

action switch and network controller for banking applications; floppy disc recorders; and products made to customer specifications.

PHALO COMMUNICATIONS

3530 Pharmacy Avenue
Scarborough, Ontario, Canada
M1W 2T9
Tel: (416) 498-9680

Products: fiber optic couplers for data processing applications.

PHILIPS ELECTRONICS LTD.

601 Milner Avenue
Scarborough, Ontario, Canada
M1B 1M8
Tel: (416) 292-5161
Telex: 065-25100
Cable: PHILIND TORONTO

Products: ground based instrument landing systems and other aeronautical navigational aids; quartz frequency-control crystals; video display units and related products; switch mode power supplies.

PHILIPS INFORMATION SYSTEMS LTD.

601 Milner Avenue
Scarborough, Ontario, Canada
M1B 1M8
Tel: (416) 292-5161
Telex: 065-25100
Cable: PHILIND TORONTO

Products: Micom word processing systems.

PHILLIPS CABLES LTD.

550 King Street West
Brockville, Ontario, Canada
K6V 5W4
Tel: (613) 345-5666

Products: communications wire and cable, submarine cable, low and high voltage power cable, overhead line (ACSR) conductors, downwell pump cable, copper rod, fiber optic cable.

PHOENIX AUTOMATION INC.

100 Argyle Avenue
Ottawa, Ontario, Canada
K2P 1B6
Tel: (613) 233-7777
Telex: 053-4890

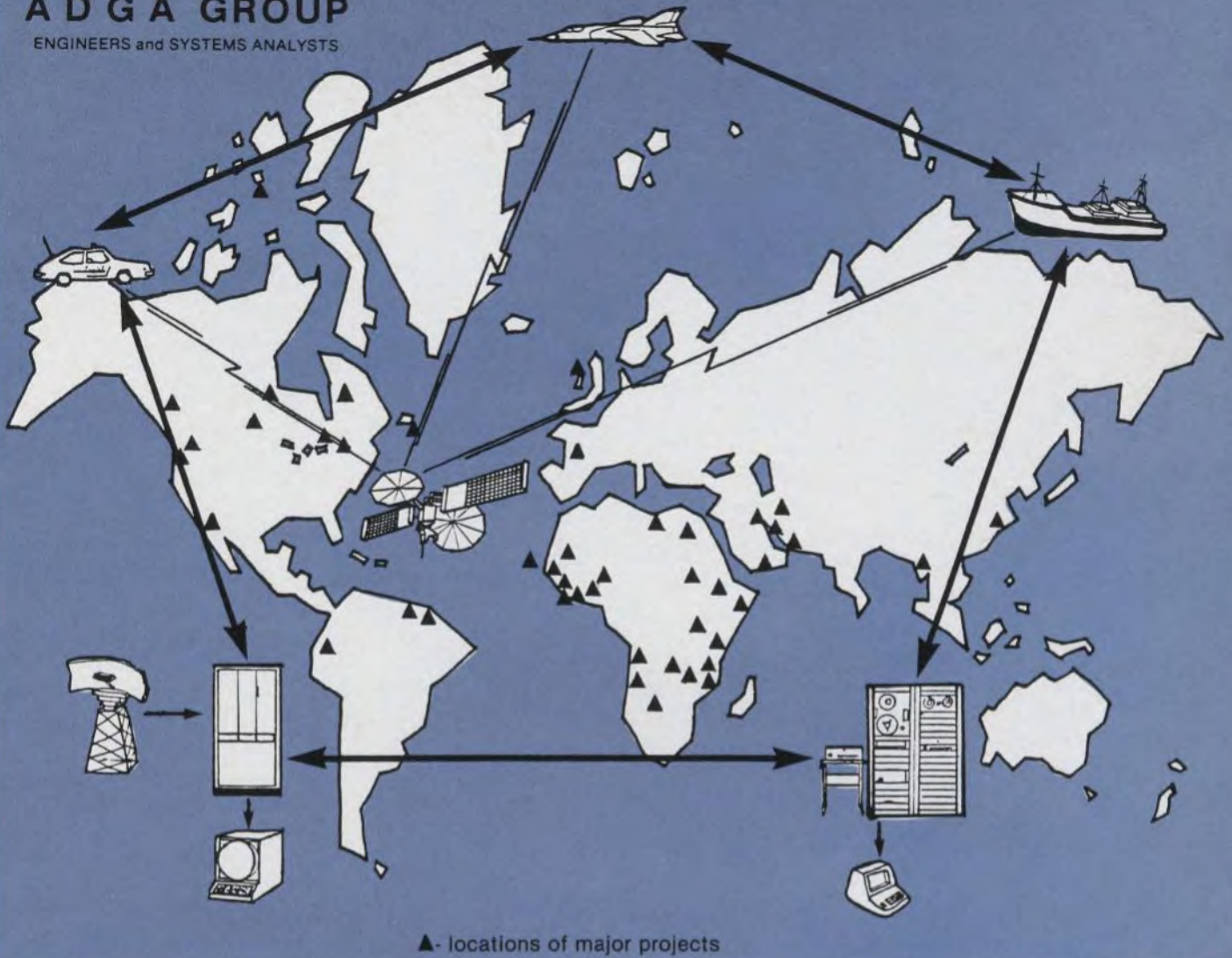
Products: SPD-101 computer-aided design/drafting system.

PHOENIX GEOPHYSICS LTD.

200 Yorkland Boulevard
Willowdale, Ontario, Canada

ADGA GROUP

ENGINEERS and SYSTEMS ANALYSTS



▲- locations of major projects

GLOBAL CAPABILITY

**ELECTRONICS CONSULTING ENGINEERS
LAND, AIR AND MARINE TRANSPORTATION
AND COMMUNICATIONS SYSTEMS**

**CONCEPT - DESIGN - IMPLEMENTATION
TRAINING - OPERATION - MAINTENANCE**

GENERAL

The ADGA Group is a professional consulting engineering organization established in 1967, with Headquarters in Ottawa, Canada and Associate offices throughout the world. Company consultants specializing in electronic systems have planned, designed, installed, operated and maintained technically oriented systems in all modes of the transportation and telecommunications fields.

As a totally independent organization our two hundred and fifty management and engineering specialists have successfully completed major consulting projects in Africa, the Middle-East, Far East, South America and in the North American continent. Our company capabilities are well known in engineering computer and management systems with EXPERTISE IN:

- air traffic control
- marine traffic control
- radio communications
- telephone switching
- navigational aids
- radar display
- microwave
- airport systems
- harbour systems
- satellites
- related civil works

adga

116 ALBERT ST.
OTTAWA, ONTARIO
CANADA K1P 5G3

TEL.: (613) 237-3022
TELEX: 053-4568
CABLE: ADGA OTT

Mark of a leader.
Caxton's moveable type completely changed
English society.



*William Caxton's device: his initials and trademark (circa 1475).
Courtesy of the John M. Wing Collection, The Newberry Library, Chicago.*

35,000 EMPLOYEES, 51 MANUFACTURING PLANTS, AND 30 RESEARCH AND DEVELOPMENT CENTERS, IN BRAZIL, CANADA, ENGLAND,

Mark of a leader.

**By merging computers and telecommunications,
Northern Telecom is changing the way
the world communicates.**



**northern
telecom**

In 1475 when William Caxton printed the first English book, he started a quiet revolution. A free flow of ideas makes constant change inevitable.

Northern Telecom started its own quiet revolution, one that's also radically changing the way ideas are communicated. We were the first company to design and produce a full line of digital switching systems, the telecommunications technology that transmits both voice and data with digital signals.

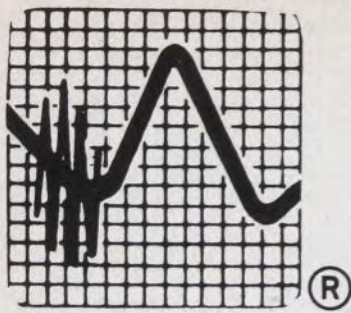
Our success convinced many sceptics that digital communications was truly the wave of the future. As private and public digital networks grow, an international web of integrated voice and data communication is gradually being created. Instantaneous access to global data banks is becoming a reality.

Today Northern Telecom is a world leader in digital switching systems, in related technologies—fiber optics, large-scale integrated circuits—and in electronic office systems.

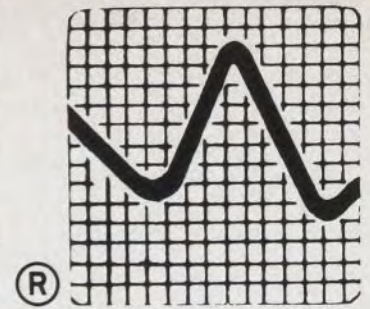
We're making our mark in the Intelligent Universe.



For more information on Northern Telecom and its products contact: Northern Telecom Limited, Corporate Relations Department, 33 City Centre Drive, Mississauga, Ontario L5B 2N5, Tel. 416-275-0960.



TYCOR® POWER LINE FILTER



The Tycor® Power Line Filter is designed to eliminate voltage impulse transients and other unwanted noise signals conducted along A.C. power lines. The device filters electromagnetic interference propagating into or out of electronic equipment that are susceptible to or generate such signals. Tycor® Power Filter suppress noise signals on power lines generated by radio frequency interference. Limits voltage to 10% of nominal peak value.



TYCOR® ELECTRONIC PRODUCTS LTD.
No. 9 - 6115 - 3rd Street S.E., Calgary, Alberta T2H 2L2
Phone (403) 259-3200 Telex Number - 03-825842

Incident Rate of Harmful
Power Line Disturbances

Type of Disturbance	Occurrences per Month	Percent of Total
Decaying Oscillatory Transients (15% threshold)	62.6	49.0%
Voltage Spikes (25% threshold)	50.7	39.5%
All Others	15.0	11.5%
Total	128.3	100%

Major Problem Sources (88.5% of Total)

Application Information

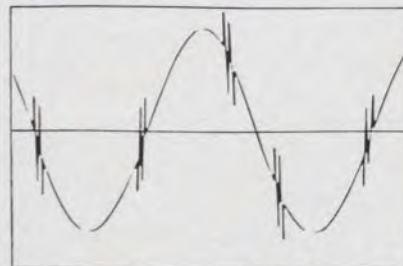
Successful and reliable operation of computer systems, communication systems and other sensitive electronic measurement, control and data processing equipment requires that the power supply be free of electrical interference. Electrical interference in the form of transient impulses and ringing originates from the switching of inductive loads (e.g. fault interruption, load correction) motor drives, light and heater controls, lightning etc. These and other interferences can cause damage, costly shutdowns, erroneous data and false alarms. The Tycor® Power Filter eliminates these and other problems caused by power line interference and also provides for lightning protection.

Applications

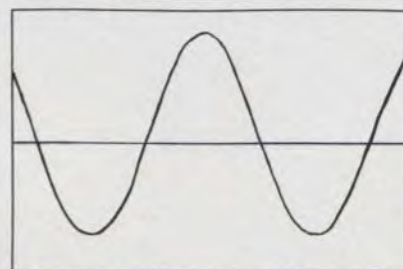
- Micro Computers
- Computer Systems
- Graphics Systems
- Medical Equipment
- Communication Equipment
- Process Controllers
- Word Processors
- Cash Registers
- Other Sensitive Electronic Equipment

Standard Series Filters
-3, 5, 10, 20, 30 amps.
-120 - 208 - 230 volts

Special Order
-2 & 3 phase
-Non-standard Voltages
-50 & 100 amp. units



This illustration depicts noise on a typical sine wave. This type of disturbance can cause program errors, memory loss and even equipment damage.



This illustration depicts a sine wave of clean power after the installation of Tycor Power Line Filter.

Dealer Inquiries Invited,
OEM Discounts Available

M2J 1R5
Tel: (416) 493-6350
Telex: 06-986856

Products: instruments, systems and services for mineral exploration based on induced polarization, resistivity, magnetotelluric and EM methods; multi-frequency phase or spectral-induced polarization systems, enabling discrimination between mineral targets of inherently different grain size or texture; tensor MT systems for geothermal and petroleum exploration featuring on-site data processing to verify data quality, provide real-time visual display and generate report quality hard-copy plots.

PHOTOCHEMICAL RESEARCH ASSOCIATES INC.

45 Meg Drive
London, Ontario, Canada
N6E 2V2
Tel: (519) 686-2950
Telex: 064-7597

Products: pulsed light sources; nanosecond light sources; arc lamp systems; integrated arc lamp systems; nanosecond fluorometers; power supplies; nitrogen lasers; HeNe lasers; photon counting NIM electronics.

PHOTOVAC INC.

Unit 2, 134 Doncaster Avenue
Thornhill, Ontario, Canada
L3T 1L3
Tel: (416) 881-8225
Telex: 06-964634

Products: Portable gas chromatographs for trace gas detection.

PIRELLI CABLES INC.

65 Richelieu, P.O. Box 70
Saint-Jean-sur-Richelieu, Quebec,
Canada
J3B 6Z2
Tel: (514) 346-6B31
Telex: 05-831532

Products: a wide range of telephone-type multi-pair copper conductor, and both loose-tube and tight-jacketed design fibre-optic cables; both copper conductor and fibre-optic cables can be supplied for aerial, direct buried, duct or onsite installation.

PLESSEY CANADA LTD.

300 Supertest Road
Downsview, Ontario, Canada
M3J 2M2

Tel: (416) 661-3711
Telex: 065-24488

Products: key telephone and PABX equipment.

POLESTAR ANTENNA CO. LTD.

Hackett's Cove
Halifax County, Nova Scotia,
Canada
BOJ 3J0
Tel: (902) 823-2442

Products: omnidirectional radio beacon transmitting antennas; automatic tuning; power-level capability up to 1 Kw carrier.

POLESTAR COMMUNICATIONS LTD.

211 Mission Ridge Centre
St. Albert, Alberta, Canada
T8N 2G4

Products: fixed frequency hf transmitters and receivers, uhf repeaters for hostile environments.

Services: computer simulation of hf radio paths.

POLYTRONICS ENGINEERING LTD.

P.O. Box 96, Station A
Willowdale, Ontario, Canada
M2N 5S7
Tel: (416) 225-2026,
(416) 625-1743

Products: power-line monitoring equipment, custom electronics, electronic power converters, complete electrical and electronic laboratories for teaching purposes at college and university level.

POSITRON INDUSTRIES INC.

4810 Jean Talon Street West
Montreal, Quebec, Canada
H4P 2N5
Tel: (514) 731-3715

Products: telephone and telecommunications equipment, including central office equipment such as electronic trunk switch, an 8-by-8 5-wire matrix to replace ROTS; ringer isolator, fully immune to induced voltages up to 200v, to reduce noise on multiparty lines; teleline isolator, providing up to 65Kv isolation on telephone lines entering power stations; telephone conferencing equipment; event registration; electronic locking interface for call directors to replace mechanical locking; data speed

converter; mobile radio identifier interface; four-way bridge with solid-state hybrid; stand-by power unit for extreme environment; bridging amplifier; base station interface and identifier; automatic disconnect unit for telegraph; remote alarm reporting and control systems; telephone for disabled; optical fibre preparation kit, fusion set and continuity checker; telephone interface device (to computers); Banker-phone - modular multi key telephone set for financial applications with remote line selection and "holler down" circuits.

PRECISION ELECTRONIC COMPONENTS LTD.

19 Hafis Road
Toronto, Ontario, Canada
M6M 2V6
Tel: (416) 249-7103
Telex: 06-969671

Products: variable resistors, attenuators, trimmers potentiometers; hot moulded carbon composition and cermet.

PRESENTLEY ENGINEERING PRODUCTS LTD.

P.O. Box 919
27B4 Fenton Road, RR No. 5
Ottawa, Ontario, Canada
K1G 3N3
Tel: (613) B22-1251

Products: recorder — continuous A/N-TSH-501 reproducer sound; rocket subcommutator; long-range communications terminal; (LRCT) airborne magnetic tape recorder; DC amplifier systems; camera control units; tactical recorder — reproducer sound; continuous marine broadcast rec/rep system; universal remote control systems for forward area tactical radio sets; airborne memoloop tape recording systems; shipborne radio operator control consoles for communications rooms; shipborne signal patch panel systems; airborne photography annotation systems; airborne data logger (pitch and roll); custom design and manufacturing; repair and overhaul. VOX-systems; airport transmitters; icebreaker communications control systems.

Canada in the world of electronics

PRESTOLITE BATTERY

8301 Keele Street
Maple, Ontario, Canada
L0J 1E0
Tel: (416) 667-0742
Telex: 06-964651

Product: batteries.

PRIOR DATA SCIENCES LTD.

16 Credit Union Way
Ottawa, Ontario, Canada
K2H 8R6
Tel: (613) 820-7235
Telex: 053-3356

Products: real-time systems engineering development; typical applications: supervisory control and data acquisition (SCADA), computer-aided dispatch, process control, graphics displays and military systems development.

W.C. PURSLEY LIMITED

3151 Lenworth Drive
Mississauga, Ontario, Canada
L4X 2G7
Tel: (416) 625-2222
Telex: 06961228

Products: cabinets, enclosures and custom metal fabricating for the electric and electronic industries.

PYLON ELECTRONIC DEVELOPMENT CO. LTD.

2300 Victoria Street
Lachine, Quebec, Canada
H8S 1Z3
Tel: (514) 637-1186
Telex: 05-821680

Products: static power supplies; DC-DC converters and inverters; ringers; ring, talk and signal supplies; fuse alarm and meter panels; battery eliminators; meter pulse generators; digital clocks; alarm systems, digital controls; electronic trunk selectors for ROTS and CAMA applications; custom switching equipment and telephone conferencing equipment; special products including custom assembly and instrumentation; time code generator; uranium detection equipment; radioactive sources; radon and thoron gas detectors; antenna switching instruments; loop back units; aluminum transit cases; and custom engineering services.

PYLON ELECTRONICS LTD.

147 Colonnade Road
Ottawa, Ontario, Canada
K2E 7L9
Tel: (613) 225-7920
Telex: 053-4961

Products: geophysical and nuclear measurement equipment.

PYLONEX INC.

45 Dorchester Street South
Quebec, Quebec, Canada
G1K 5Y1
Tel: (418) 524-5221
Telex: 051-3868

Products: transmission line towers and allied products; microwave towers and antennas; TV towers; custom galvanizing using dry hot-dip process; general machine-shop and plate-shop works.

Services: engineering; structural analysis; structural and mechanical drawings; tower installation supervision.

Q

QUINDAR PRODUCTS LTD.

106 Rayette Road
Concord, Ontario, Canada
L4K 1B6
Tel: (416) 669-1272
Telex: 06-964574

Products: electronic equipment for remote-control supervision and telemetry; multiplexing systems; data modems; communications amplifiers, related equipment and accessories.

QUOPRO DATA SYSTEMS LTD.

501 Krug St. Suite 200
Kitchener, Ontario, Canada
N2B 1L3
Tel: (519) 576-4480

Products: computerized clock-calendar device, as well as 16-bit Pascal-oriented computer system executing compiled Pascal "D" codes.

R

RCA LTD.

Royal Bank Plaza, North Tower
P.O. Box 161, 23rd Floor
Toronto, Ontario, Canada
M5J 2J4
Tel: (416) 865-7960
Telex: 065-24136

TWX: 610-491-2185

Products: color picture tubes; photo sensors.

RDC ELECTRONICS INC.

8421 Darnley Road
Montreal, Quebec, Canada
H4T 1X2
Tel: (514) 733-7181
TWX: 610-421-4483

Products: printed circuit boards; single-sided, double-sided and multi-layers; staked pin back-panels.

R-METRICS LTD.

486 Wyecroft Road
Oakville, Ontario, Canada
L6K 2G7
Tel: (416) 845-6036

Products: nuclear instrumentation; gamma radiation survey meters; dosimeter chargers; ionization chamber detectors; radiac calibrators; power supplies.

RMS INDUSTRIAL CONTROLS INC.

70 Williams Street
Port Moody, British Columbia, Canada
V3H 2R5
Tel: (604) 461-1315
Telex: 04-353612

Products: microprocessor-based telemetry systems; radio remote controls for industrial equipment; monitoring and supervisory control systems; data-acquisition and control systems; radio telemetry equipment, RS232 radio.

RACAL (CANADA) LTD.

1806 Woodward Drive
Ottawa, Ontario, Canada
K2C 0P7
Tel: (613) 225-4640
Telex: 053-4187
Cable: RACOTT OTTAWA

Products: HF radio communications systems and ancillary equipment; communications systems; engineering and maintenance services; remote control systems; receiving antenna switching systems; digital time insertion generator/reader units for use with air traffic control recorders.

RACAL-DECCA CANADA INC.

71 Selby Road
Brampton, Ontario, Canada

L6W 1K5

Tel: (416) 457-8720
Telex: 06-97699
Cable: DECRADAR TORONTO

Products: antenna mast and tower base insulators, guy strain insulators and lighting isolation transformers; static drain resistors.

RADIONICS LTD.

1240 Ellesmere Road
Scarborough, Ontario, Canada
M1P 2X4
Tel: (416) 292-1575
Telex: 06-963726

Products: Digiecho 1100 compact digital echoencephalograph; Digiecho 2000 recording digital echoencephalograph; 3000 echo oculometer; spectrum analyzer 8000; ocular biometer used for interocular lens (IOL) power calculations.

RANTECH ELECTRONICS LTD.

230 Canarctic Drive
Downsview, Ontario, Canada
M3J 2P4
Tel: (416) 661-9319

Products: monitoring and supervisory control systems and components; data-acquisition systems; telemetry systems.

RAYSHIELD LTD.

2630 Royal Windsor Drive
Unit 4
Mississauga, Ontario, Canada
L5J 1K7
Tel: (416) 822-6100
Telex: 06-982316

Products: steel or copper-mesh RF-shielded enclosures for test labs etc.

RAYTHEON CANADA LTD.

400 Philip Street
Waterloo, Ontario, Canada
N2J 4K6
Tel: (519) 885-0110
Telex: 069-5431

TWX: 610-365-3469
Cable: RAYCAN

Products: primary, secondary and weather radar systems and equipment; radar microwave remoting and radar multiplex systems and equipment; analog, digital and scan converted displays; standard and Doppler VOR; distance measuring equipment (DME); microwave systems and equipment, radio, protec-

tion switching and supervisory; terrestrial (long haul, and high capacity analog) microwave communications systems; and earth stations for satellite communications. These include stations for transmission and reception of television, voice and data in both the 6/4 and 14/12 GHz bands.

RED PINE INSTRUMENTS LTD.

R.R. 1
Denbigh, Ontario, Canada
K0H 1L0
Tel: (613) 333-2776

Products: transit-industry automatic passenger-counting systems, custom microcomputer systems.

RELIANCE TELECOMMUNICATION PRODUCTS LTD.

122 Edward Street
St. Thomas, Ontario, Canada
N5P 1Z2
Tel: (519) 631-0780
Telex: 064-73521

Products: battery chargers; inverters; ringing generators; power boards; converters; ringing, tone and interrupter equipment; battery distribution fuse bays; uninterruptible power supplies.

RELTEK INC.

44 Steacie Drive
Kanata, Ontario, Canada
K2K 2A9
Tel: (613) 592-2411

Products: component reliability enhancement programs; O.A. manual preparation; microprocessor controllers and acquisition systems.

REMANCO SYSTEMS LTD.

7 Banigan Drive
Toronto, Ontario, Canada
M4H 1G4
Tel: (416) 429-6771

Products: stand-alone food-service/hospitality computer system with integrated service terminals and printers, video screen, electronic keyboard, dual-diskette storage unit, microprocessor control unit (expandable to 1,000 Kb); BASIC language

Canada in the world of electronics

processor, full user software applications; optional communications capability.

RENFREW ELECTRIC CO. LTD.

1210 Birchmount Road
Scarborough, Ontario, Canada
M1P 2C3
Tel: (416) 752-4611
Telex: 06-963527
TWX: 610-941-2287

Products: resistors — carbon composition, precision wire wound, power wire wound (fixed and adjustable), and molded wire wound; thick film metal glaze, variable carbon and wire wound controls; general purpose, time delay and industrial relays; connectors — flat pin and printed circuit board; barrier terminal block; plugs and sockets; coils; and timers.

REUTER-STOKES CANADA LTD.

465 Dobbie Drive
Cambridge, Ontario, Canada
N1R 5X9
Tel: (519) 623-4880
Telex: 069-59327

Products: self-powered neutron detectors and associated electronics; mineral insulated cable; thermocouples; industrial heat stress monitors.

RIBBONHOUSE ASSEMBLIES LTD.

106 Schneider Road
Kanata, Ontario, Canada
K2K 1Y2
Tel: (613) 592-5555
Telex: 053-4757

Products: supplier of flat ribbon cable assemblies.

RICHARD BRANCKER RESEARCH LTD.

27 Monk Street
Ottawa, Ontario, Canada
K1S 3Y7
Tel: (613) 233-1621
Telex: 053-4761

Products: RMS field intensity meter, radon gas detector; plant-productivity fluorometer for biological research in area of photosynthesis; egg-candling unit for agricultural purposes; bore-hole locator for mining applications; magnetite meter for metal-processing applications; rotary-dial roll restrictor for telephone applications.

RICHMOND SOUND DESIGN LTD.

1234 West 6th Avenue
Vancouver, British Columbia,
Canada
V6H 1A5
Tel: (604) 734-1217

Products: professional audio control products for theatre, broadcast, recording, commercial and industrial applications; complete range of control consoles, audio modules, and custom control systems.

Services: audio system consultation for theatres and recording.

ROCHESTER INSTRUMENT SYSTEMS LTD. (RISCAN)

915 Kipling Avenue
Toronto, Ontario, Canada
M8Z 5H4
Tel: (416) 233-6218
Telex: 06-967801

Products: solid-state visual annunciators; electronic trips and alarms; solid-state signal converters and transducers for processing industries and power utilities; industrial temperature monitors; vibration sensors and monitors; uninterruptible power supplies; sequential event recorders.

ROCKWELL INTERNATIONAL OF CANADA LTD.

Collins Canada Division
150 Bartley Drive
Toronto, Ontario, Canada
M4A 1C7
Tel: (416) 757-1101
Telex: 06-963-573

Cable: COLINRAD TORONTO
Products: airborne radio communications and navigation equipment; airborne, land mobile and fixed base SSB communications equipment; portable manpack and hand-held HF transceivers; microwave and multiplex equipment; high power H.F. transmitters; maritime HF SSB transceivers with automatic antenna couplers; automatic direction finder-VHF/UHF.

ROSS VIDEO LTD.

P.O. Box 220
9 Plaza Drive
Iroquois, Ontario, Canada
K0E 1K0
Tel: (613) 652-4889

Telex: 05-811579

Products: television production switchers.

S

SED SYSTEMS INC.

P.O. Box 1464
23-66 Avenue CN,
Saskatoon, Saskatchewan,
Canada
S7K 3P7

Tel: (306) 244-0976

Telex: 074-2495

TWX: 610-731-1476

Products: complete satellite earth stations for 4/6 and 11/14 GHz systems; specialize in LNA receiver and filter production; aerospace subsystems for balloon, rocket and satellite systems; instrumentation for agricultural implements, telecommunications systems and power line monitoring.

Services: engineering consultants for environmental control of buildings; aerospace and communications systems.

SR TELECOM INC.

8150 TransCanada Highway
St. Laurent, Quebec, Canada
H4S 1M5

Tel: (514) 335-1210

Telex: 05-824919

Products: SR (subscriber radio) system — brings urban-quality telephone service to rural and suburban areas; provides secure communications, SCADA, and data communications lines for private systems; uses advanced TDMA/DAMA techniques to provide up to 94 circuits to area of 40-km radius.

SAFT BATTERIES LTD.

1361 Huntingwood Drive,
Unit 11
Scarborough, Ontario, Canada
M1S 3J1

Tel: (416) 298-7322

Products: batteries — nickel-cadmium, alkaline, wet-cell.

SANDER GEOPHYSICS LTD.

303 Legget Drive
Kanata, Ontario, Canada
K2K 2B1

Tel: (613) 592-1301

Telex: 053-4755

Products: digital data-acquisition

systems for geophysical environmental and technical data recording; high-resolution magnetometers; airborne gamma-ray spectrometers; airborne cameras for flight-path recovery; airborne electromagnetic survey instruments; custom-designed airborne geophysical survey systems; airborne VLF electromagnetic instruments.

SANDTRON AUTOMATION LTD.

1404 Wallace Road
Oakville, Ontario, Canada
L6L 2Y2

Tel: (416) 827-8230

Telex: 06-982382

Products: industrial photoelectric controls for production machinery and conveyors; electronic counters for batch control; also cut-to-length controls.

SCANNEX INTERNATIONAL

125 Norfinch Drive
Downsview, Ontario, Canada
M3N 1W8

Tel: (416) 667-9900

Telex: 06-217754

Products: closed-circuit television; high-security locks; alarm systems.

SCIEX INC.

Unit 202, 55 Glencameron Road
Thornhill, Ontario, Canada
L3T 1P2

Tel: (416) 881-4646

Telex: 06-964722

Products: mass spectrometers.

SCINTREX LTD.

222 Snidercroft Road
Concord, Ontario, Canada
L4K 1B5

Tel: (416) 669-2280

Telex: 06-964570

Cable: SCINTREX TORONTO

Products: fluxgate and proton precession magnetometers for surface, drill hole, observatory and airborne use; susceptibility meters for field and lab measurements; CG series quartz gravity meters for prospecting and geodetic surveys; electromagnetic prospecting systems including tilt-angle systems, moving source and fixed source compensation systems; drill hole electromagnetic compensator systems; helicopter and fixed wing airborne electromagnetic systems; frequency and

time domain types induced polarization systems; integral and differential gamma-ray spectrometers for ground, drill hole and airborne applications; radiometric logging equipment for borehole, carborne and airborne use; neutron-prompt gamma-ray activation facility and borehole logging system; research system for study of mill-site ore grade analysis; AC and DC resistivity equipment; analytical instruments for laboratory and field analysis of vapours, water and solid samples for geochemical purposes monitoring instrumentation for nuclear power plants.

SECURATEST MFG. LTD.

P.O. Box 476
Pickering, Ontario, Canada
L1V 2R7

Tel: (416) 928-0293

Products: hand-held CT-3A continuity tester.

SENTROL SYSTEMS LTD.

4401 Steeles Avenue West
Downsview, Ontario, Canada
M3N 2S4

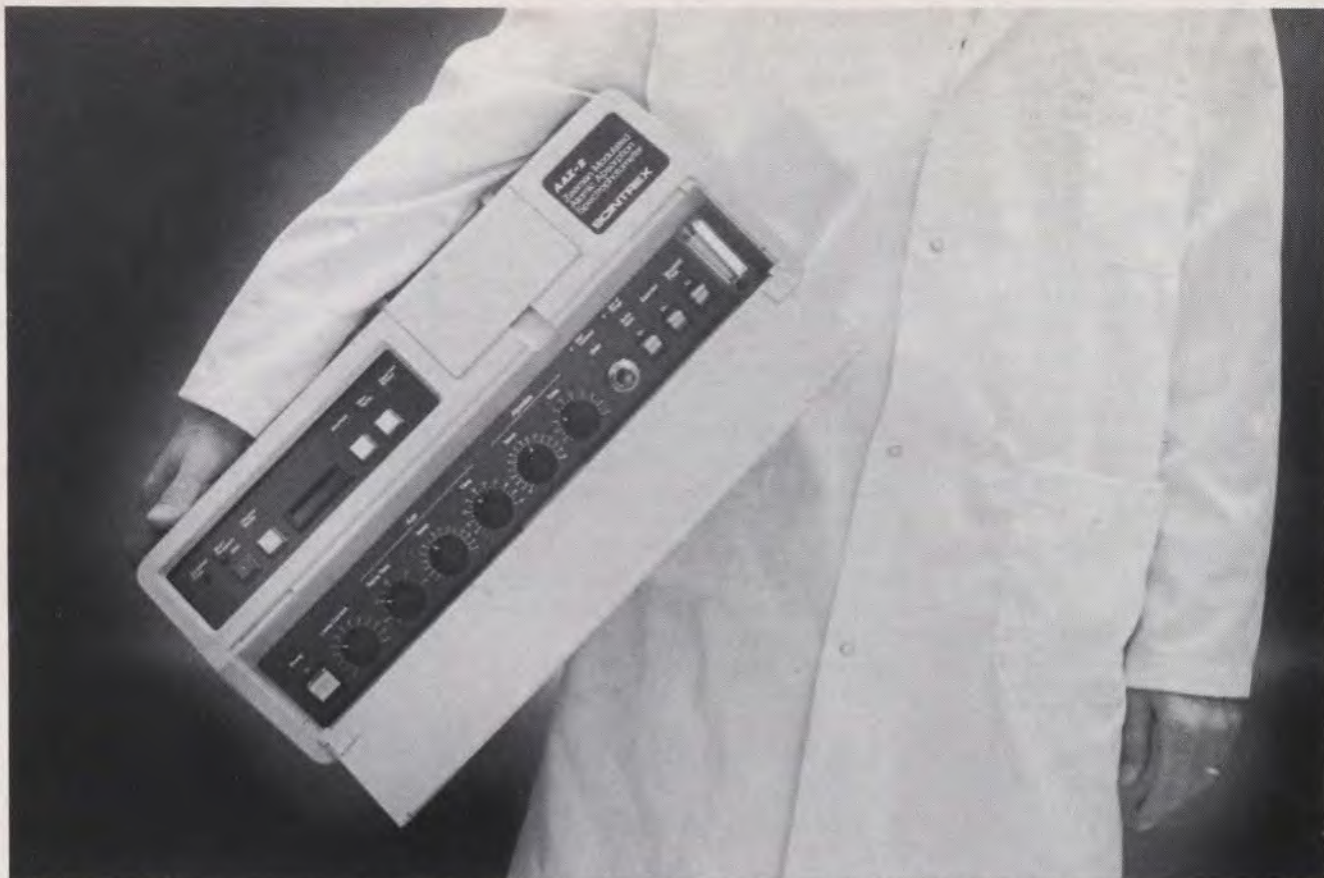
Tel: (416) 661-7000

Telex: 069-65672

Products: sensors and control instrumentation for the pulp and paper petrochemical, metalworking and other resource industries; pulp and paper sensors and control systems using mini and micro computers with software and hardware for pulp mills and paper machines; sensors and control systems for accurate measurement and control of grammage (basis weight), moisture, caliper, formation, brightness, color, opacity and reel hardness; control systems for petroleum-related industries including pipeline control, supervisory control, process control, batch control and environmental monitoring; steel industry measurement and control systems for coating weight measurement and control, thickness gauges, speed and length gauges, hot and cold rolling mill optical width gauges; fully distributed process-control and energy-management systems for total control of all resource industries.

SHAW FLEXIBLE TUBES LTD.

25 Bethridge Road
Rexdale, Ontario, Canada



The Zeeman background correction and other features ensure maximum accuracy and specificity even for on-site trace element analysis.

The new AAZ-2: a high sensitivity AA analyser that you can operate inexpensively...anywhere!

The Scintrex AAZ-2 is the first trace element analyser equally at home in the field or laboratory. Compact and practical, it produces first order analytical results even when space and power are at a premium. This innovative, simple instrument saves you money through: 1) lower capital and operating costs, 2) ease of operation and 3) portability.

Sensitive and Specific. With a minimum detectable concentration limit commonly less than 1 ppb (ng/ml) for many elements, the AAZ-2 is as sensitive as any flameless AA spectrophotometer you can name. To enhance specificity in complex matrices, its modulated Zeeman technique corrects for background absorption much better than deuterium lamp methods.

Easy to use. Here are some of the features that Scintrex' engineers incorporated to ensure simple operation. First, you can easily install the AAZ-2 by connecting it to an argon gas bottle. You can align a standard cathode lamp and adjust the monochromator for a

new element in a matter of minutes. Once the dry-ash-atomize timing and temperature controls are set for the element being analysed, you pipette a 10 microlitre liquid sample onto the tungsten furnace atomizer and push a button. Within 90 seconds the measurement is complete and the value is displayed.

If desired, the AAZ-2 can communicate the value directly to your microcomputer which you can use to analyse the absorptivity-time curve, process, store and present data.

Use it anywhere. Consider the advantages of doing analyses in a field camp for mineral exploration or in a ship or vehicle for environmental monitoring. You'll avoid errors due to changes in sample composition during transport. You'll also save by not having to return to the field for verification or detailed sampling.

Here are some of the features of the AAZ-2 which contribute to its portability and ease of use: 1) the instrument weighs only 26 kg and is the size of an

office electric typewriter, 2) it consumes only 15% of the electrical energy and 50% of the argon required by most flameless AA units, 3) precise voltage regulation ensures that results are unaffected by line voltage changes, permitting use with a motor generator, and 4) gas cooling eliminates the need for water and plumbing.

Reliability. Yes, you can transport the AAZ-2 and expect it to work. The simplicity of the design and Scintrex' more than 25 years of experience in producing precision instruments for worldwide geophysical and geochemical prospecting are your insurance.

Need to know more? For a detailed brochure describing the AAZ-2 or a demonstration, perhaps even in your own lab, contact Scintrex at 222 Snidercroft Road, Concord, Ontario, Canada, L4K 1B5, telephone (416) 669-2280, telex 06-964570.

SCINTREX

M9W 1M7

Tel: (416) 743-7111

Telex: 06-989435

Products: electronic-instrument wire and cable.

SIEMENS ELECTRIC LTD.

7300 Trans Canada Highway
Pointe Claire, Quebec, Canada
H9R 4R6

Tel: (514) 695-7300

Telex: 05-822778

Products: design, manufacturing, marketing and servicing of electrical and electronic products and systems for utilities, industry, medicine and science.

SILONEX INC.

2150 Ward Street
Montreal, Quebec, Canada
H4M 1T7

Tel: (514) 744-5507

TWX: 610-421-3362

Cable: NATSEMICO

Products: cadmium sulphide photoconductive cells; cadmium selenide photoconductive cells; silicon photodiodes; photocell lamp assemblies; silicon photo-transistors; photoelectric arrays; optocouplers; silicon solar panels.

SILTRONICS LTD.

436, Highway 7
Kanata, Ontario, Canada
K2L 1T9

Tel: (613) 836-5003

Telex: 053-3936

Products: custom and special-purpose silicon integrated circuits.

SIMTRON LIMITED

494-1 The Queensway
Peterborough, Ontario, Canada
K9J 7L9

Tel: (705) 743-6903

Products: design, manufacture and servicing of products for the communications, air, maritime and ground transportation markets; primarily designing and supplying communications systems and equipment to the avionics and telecommunications industries and government agencies; multiplex integrated data-transmission and acquisition systems; defense-related electronics systems; transponder and receiver systems; ground-based avionics test simulators and control systems; equipment for

the nuclear power generation industry; electronic equipment also manufactured to customers' specifications.

SINCLAIR RADIO LABORATORIES LTD.

122 Rayette Road
Maple, Ontario, Canada
L4K 1B6

Tel: (416) 669-1244

Telex: 06-964598

Products: antennas for all frequencies specially VHF and UHF; low intermod antennas specifically for multicoupling; DME antennas; filters and filter systems particularly for multicoupling with low intermod, bandpass, low and high pass, band stop, etc.; HF transformers and baluns; active receiver multicouplers; autotuned filters and antenna couplers; consulting services on all antenna and filter systems; measurement services for intermod products, filter characteristics, antenna patterns and impedances; transmitter combiners; isolators; circulators; diplexers/duplexers; Comshel communications shelters; clamps and mounting hardware.

SIOC LTD.

3085 Lenworth Drive
Mississauga, Ontario, Canada
L4X 2G4

Tel: (416) 625-1790

Telex: 06-961172

Products: monitoring and control devices for process and power industries.

SKOTEL CORPORATION

1445 Provencher
Brossard, Quebec, Canada
J4W 1Z3

Tel: (514) 465-8990

Telex: 05-267493

Products: generators and readers of SMPTE/EBU time and control code for video and audio tape indexing; both longitudinal and VITC formats are available; options include character-generator display, jam sync, and data interfaces for word serial, parallel and RS-232 communications are available.

S.G. SMALLWOOD LTD.

385 Phillip Street
Waterloo, Ontario, Canada

N2L 5R8

Tel: (519) 886-4390

Products: components custom-made to customer specifications, including filters, crossover networks, IF transformers, coils — AF, IF, RF.

SOCIÉTÉ D'INNOVATION TECHNOLOGIQUE LTÉE

1033 Rue Du Perche
Boucherville, Quebec, Canada
J4B 5M8

Products: lab equipment for teaching microprocessor technology; bit slice microprocessors; process-oriented microprocessors; communications-oriented microprocessors.

W. SODIN (GRAVITY) LTD.

211 Hendon Avenue
Willowdale, Ontario, Canada
M2M 1A9

Tel: (416) 225-4513

Cable: SODINST TORONTO

Products: gravity meters for mineral and oil exploration and scientific study.

SOLA CANADA

377 Evans Avenue
Toronto, Ontario, Canada
M8Z 1K8

Tel: (416) 252-6465

Telex: 06-984759

Products: constant-voltage transformers, up to 500 KV_a.

SOMA ELECTRONICS LTD.

6530 Lawrence Avenue East
P.O. Box 212
West Hill, Ontario, Canada
M1E 4R5

Tel: (416) 281-5151

Telex: 065-25391

Products: loudspeaker systems.

SONOTEK LTD.

2410-5 Dunwin Drive
Mississauga, Ontario, Canada
L5L 1J9

Tel: (416) 828-6810

Telex: 065-24733

Products: integrated geophysical survey system; data-acquisition systems; digital transducer indicator; digital industrial barometer; radiation integrator; geophysical and meteorological instrumentation.

SONSTAR CORPORATION

Box 13430
Kanata, Ontario, Canada

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K2K 1X5
Tel: (613) 839-5572

Products: Perimeter intrusion detection systems.

SOUTHWELL CONTROLS LTD.

857 West 3rd Street
North Vancouver, British
Columbia, Canada
V7P 1E3
Tel: (604) 980-3688
Telex: 04-352526

Products: control systems; tachometers; printed circuit boards.

SPACE CIRCUITS LTD.

605 Kumpf Drive
Waterloo, Ontario, Canada
N2J 4A4
Tel: (519) 886-6670
Telex: 069-55326

Products: printed circuit boards; computer back-panels; multilayers; fine line (0.006 lines and spaces) circuits; "multiwire".

SPAR AEROSPACE LIMITED

Royal Bank Plaza
South Tower, Box 83
Toronto, Ontario, Canada
M5J 2J2
Tel: (416) 865-0480
Telex: 065-24240
Cable: SPARCAL TOR

Products: remote manipulator systems for space and ground applications; lightweight deployable structures (STEM, Astromast) for space and ground applications; satellites, satellite subsystems and land-based earth stations; infrared surveillance systems; electro-optical systems; transmission systems and equipment; gearboxes; orthophoto and conventional graphic maps.

SPARTON OF CANADA LTD.

P.O. Box 5125
100 Elm Street
London, Ontario, Canada
N6A 4N2
Tel: (519) 455-6320
Telex: 064-5876
Cable: SPARTON

Products: research, development and manufacture of military and commercial electronic products; three types of passive sonobuoys, and two active sonobuoy designs; transducers; hydrophones; passive intrusion systems consisting of infrared, magnetic,

and seismic sensors. These intrusion devices include datalink units so that systems can be hard-wired or wireless linked; regulated power supplies.

SPERRY INC.

Highway 17, P.O. Box 1300
Rockland, Ontario, Canada
K0A 3A0
Tel: (613) 446-6011
Telex: 053-4806
TWX: 610-563-8590

Products: time division multiplexers; modular communication control systems; teletest, videographs; laser ceilometers; depth recorders; horizon bars (for ship-board helio operations); temperature monitoring systems; echo sounders; cordwood modules and cards; headsets; distortion analysers; message generators; Fox test generators; supervisory control; marine telephone; variosens (water pollution monitor); aircraft flight instruments; marine radars; cable harnesses.

Services: repair and overhaul of air and marine electronics with special emphasis on flight instruments; communications (misc.); communicators (process control); counting and timing devices; event recorders; electro optical and infra-red equipment; environment instrumentation and monitoring; geophysical equipment (marine); lasers and ancillary equipment; navigation (marine); oceanography and meteorology detection; radar systems; remote sensing; repair and overhaul services; telegraph equipment; telephone equipment, cable harnesses; sensors.

SPILSBURY COMMUNICATIONS LTD.

120 East Cordova Street
Vancouver, British Columbia,
Canada
V6A 1L1
Tel: (604) 684-4131
Telex: 04-55482
Cable: SPILTIN VANCOUVER

Products: HF SSB and VHF FM fixed, mobile, and portable radio telephone equipment for land and marine applications; tunable HF whip antennas and antenna tuning units including fully automatic, semi-automatic manual

tuning for land marine and aircraft applications; LF non-directional radio beacons and automatic beacon antennas for airport navigational aids; LF and HF monitor receivers.

SPRAGUE ELECTRIC OF CANADA LTD.

49 Bertal Road
Toronto, Ontario, Canada
M6M 4M7
Tel: (416) 766-6123
Telex: 06-969658
TWX: 610 491 6302
Cable: TELEFARAD

Products: solid molded axial leaded tantalum capacitors; axial monolithic capacitors; power factor corrections capacitors.

STANDBY ELECTRONICS INC.

3111 Woodchester Drive
Mississauga, Ontario, Canada
L5L 1J2
Tel: (416) 828-6981
Telex: 06960276

Products: standby power supplies; inverters for the cable TV industries; battery chargers for industrial standby power; sine-wave inverters for backup power.

STATICON LTD.

390 Tapscott Road
Scarborough, Ontario, Canada
M1B 2Y9
Tel: (416) 291-3723
Telex: 065-25211

Products: ac and dc solid-state no-break (UPS) systems; battery power plants and float charger systems for communications applications; battery eliminators; switchgear battery chargers, all voltages; plating rectifiers including electrophoresis systems, all voltages and ratings; battery chargers for turbine and engine starting, all ratings; static inverters; DC-DC converters, all voltages; frequency converters; magnetron power supplies; solid-state ac voltage regulators; industrial lift truck battery chargers.

SURFLINE ENGINEERING LTD.

Box 443
Dartmouth, Nova Scotia, Canada
B2Y 3Y5
Tel: (902) 463-3550
Telex: 019-21822

Products: control system design; control panel and console manufacture; custom instrument design and manufacture.

SUTHERLAND-SCHULTZ LTD.

859 Courtland Avenue East
Kitchener, Ontario, Canada
N2G 4H5
Tel: (519) 743-4123

Products: industrial control systems; heat-tracing monitors; cement batch panels; programmable control systems.

SYSTEMHOUSE LTD.

90 Sparks Street
Ottawa, Ontario, Canada
K1P 6K2
Tel: (613) 234-6544
Telex: 052-4215

Products: information systems services; turnkey minicomputer solutions; computerized systems - cartographic, hospital and business; energy-management systems; Telidon videotext systems; and social services systems.

Services: information systems, consulting, computer programming, systems and data-base expertise.

T

TD TELEPHONE PRODUCTS LTD.

195 Nantucket Boulevard
Scarborough, Ontario, Canada
M1P 2P3
Tel: (416) 757-4166
Telex: 06-96779

Products: Modulus line of electronic telephones with universal pulse dial and last-number memory of DTMF dial, sealed contact switches; duette two-line telephone with hold system; Modulus III full duplex speaker-telephone; special-purpose electronic telephones.

TMC (CANADA) LTD.

R.R. 5
Ottawa, Ontario, Canada
K1G 3N3
Tel: (613) 521-2050
Telex: 053-4146

Products: RF amplifiers and pre-amplifiers; antenna couplers; coils; communications equipment and systems; connectors; convert-

ers; filters; receivers — LF/VLF, marine, SSB, VHF; coaxial relays and switches; emergency transceivers; RF and IF transformers; transmitters.

TARGA ELECTRONICS SYSTEMS INC.

P.O. Box 8485,
3101B Hawthorne Road
Ottawa, Ontario, Canada
K1G 3H9
Tel: (613) 731-9941

Products: magnetic bubble-memory data-storage systems; ruggedized bubble-memory cartridges with a range of capacities and user-friendly interfaces for original equipment manufacturers or end users; stand-alone bubble-memory data recorders for field, lab or industrial applications; STD bus bubble-memory boards.

TAURUS COMPUTERS PRODUCTS INC.

1755 Woodward Drive
Ottawa, Ontario, Canada
K2C 0P9
Tel: (613) 226-5361

Products: Taurus-One, a micro-processor-based I/O system; interfaces signal conditioning equipment to computers and consists of two EIA RS232 asynchronous ports, an IEEE-488 GPIB instrument multi-use link port, Taurus-Bus, and input/output modules for digital and analog signals.

TAYLOR INSTRUMENT

75 Tycos Drive
Toronto, Ontario, Canada
M6B 1W4
Tel: (416) 787-1651
Telex: 06-969754

Products: electronic and pneumatic controllers, indicators, recorders and transmitters; a powerful, fully-integrated control system using the company's MOD control systems.

TECH 5 LTD.

106 Schneider Road
Kanata, Ontario, Canada
K2K 1Y2
Tel: (613) 592-3335
Telex: 053-4757

Products: electronic assembly; semi-automatic wire wrap, cable

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assembly, backpanel assembly, cable harnesses, wire preparation.

TECHNICAL ENTERPRISES LTD.

2266 Drew Road, Unit 9
Mississauga, Ontario, Canada
L5S 1B1
Tel: (416) 677-2101
Telex: 06-983639

Products: anti-static antenna fittings for aircraft.

TECHWEST ENTERPRISES LTD.

3650 Westbrook Mall
Vancouver, British Columbia,
Canada
V6S 2L2
Tel: (604) 224-1113
Telex: 04-507748
Cable: RESEARCHBC

Products: data-acquisition units employing 16mm and 35mm video and optical cameras (e.g. for highway photologging applications); electronic instrument design and manufacture; electro-optical grading, equipment (e.g., apple colour meter).

TECTROL INC.

39 Kodiak Crescent
Downsview, Ontario, Canada
M3J 3E5
Tel: (416) 630-8108
Telex: 06-217645

Products: switching power supplies; inverters; DC-DC converters; standby power supplies.

TELECOM POWER CORP.

2779 Lake City Way
Burnaby, British Columbia,
Canada
V5A 2Z8
Tel: (604) 420-3030
Telex: 043-54720

Products: communications battery chargers; power plants for telephone and central office and PABX; DC-DC converters; DC-AC inverters; UPS systems; power supplies; battery eliminators and switching regulators.

TELE-RADIO SYSTEMS LTD.

121 Hanlan Road
Woodbridge, Ontario, Canada
L4L 3P5
Tel: (416) 851-2231
TWX: 610-492-2384

Products: AM broadcast; AM RF amplifiers, off-air receivers;

telephone instruments: recorder-controller for monitoring of telephone signalling, T1 PCM error generator, T1 cable test set, jumper tracer, delay distortion equalizer; electric power utility products: frequency trend relay, tapchanger controller, partial discharge analyzer, close-differential voltage relay.

Services: design and manufacture of custom instruments and equipment, including protective relay logic systems for nuclear generating stations and custom control consoles; repair, overhaul and calibration of electrical and electronic instruments, test equipment, meters etc. for science, government and industry; DOT/FCC-type approval engineering services; electrical metrology lab for precise calibration.

TELEVOX SYSTEMS INC.

2115 Lavoisier Street
Ste-Foy, Quebec, Canada
G1N 4B2
Tel: (418) 687-1100
Telex: 051-31755

Products: intercom systems; educational systems — manual and automated; public address systems; intercom amplifiers; amplifiers with stored programs; pre-amplifiers and mixers; intercom duplex amplifiers; private telephone exchange; crossbar switching systems.

TENTEK INDUSTRIES

715 Clayson Road
Toronto, Ontario Canada
M9M 2H4
Tel: (416) 745-6155

Products: residential smoke detectors; intrusion alarms.

THERMO ELECTRIC (CANADA) LTD.

12 Rutherford Road South
Brampton, Ontario, Canada
L6W 3J2
Tel: (416) 451-0183
Telex: 06-97664

Products: thermocouples, miniature and industrial; RTDs, RTD bridges, thermocouple wire and cable; temperature transmitters, instrument wire and cable; temperature indicators, controllers, recorders, monitors, plugs and jacks, switches.

THOMAS & BETTS LTD.

700 Avenue Thomas
Iberville, Quebec, Canada
J2X 2M9
Tel: (514) 658-6611
Telex: 05-831550

Products: electronic connectors and harnessing accessories, also identification products.

THRUSH INC.

172 Bethridge Road
Rexdale, Ontario, Canada
M9W 1N3
Tel: (416) 746-4422
Telex: 06-989375

Products: direct replacement parts for OEM digital PBX equipment.

TIL-TEK LTD.

P.O. Box 550
Kemptville, Ontario, Canada
K0G 1J0
Tel: (613) 258-2470

Products: communications band antennas, military band antenna, multicouplers, phased array antennas.

TOPPING ELECTRONICS LTD.

1320 Ellesmere Road
Scarborough, Ontario, Canada
M1P 2X9
Tel: (416) 291-7707
Telex: 065-26210

Products: in-house capabilities ranging from microprocessor systems development and fabrication to electronic and communications equipment design, construction, assembly and test; pipeline inspection equipment; tape recorders (analog and multichannel); microcontrollers (including software); voice/data attachments for telephone equipment; microprocessor traffic-signal controllers.

TORPEY CONTROLS & ENGINEERING LTD.

2220 Midland Avenue, Unit 98
Scarborough, Ontario, Canada
M1P 3E6
Tel: (416) 298-7788

Products: computer-based systems for television broadcasting.

TRACON ENGINEERING LTD.

520 Conestoga Road
Waterloo, Ontario, Canada
N2L 4E2
Tel: (519) 884-2810
Telex: 069-55350

Products: design and manufacturing facilities for custom control and instrumentation systems for electrical, electronic, programmable and pneumatic requirements; dry-type

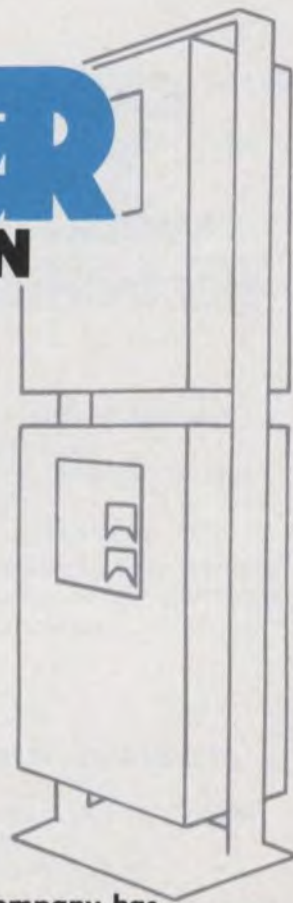
transformers to 1000 KVA and 5 KV; custom metal enclosures and cabinets.

TRAN COMMUNICATIONS LTD.

1320 Shawson Dr.
Mississauga, Ontario, Canada
L4W 1C3
Tel: (416) 678-9504
TWX: 610-4928860

Products: Digital data-communications network products, include a broad line of

TELECOM POWER CORPORATION



from
CONVERTERS
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POWER PLANTS

TPC a wholly owned Canadian company, has developed the leadership in telecom power conversion technology. With 30 years proven reliability in the telecom industry, new designs in H.F. Switch-Mode and Ferro-Resonant technologies provide a significant contribution in reliability and cost effectiveness.

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Tel: (604) 420-3030 • Telex: 043-54720 • Twx 610-929-1029

Toronto: 215 Lakeshore Blvd East, Toronto, Ontario M5A3W9 CANADA
Tel: (416) 363-5597 • Telex: 065-23471

Chicago: 4050 North Rockwell St., Chicago, Illinois 60618 U.S.A.
Tel: (312) 463-9181 • Twx 910-221-5034

Canada in the world of electronics

asynchronous and synchronous
time-division multiplexers and
digital data sets.

TRANS-AUDIO INDUSTRIES LTD. CORP.

505 Boucherville Street
Sherbrooke, Quebec, Canada
J1L 1X7
Tel: (819) 563-6162

Products: turntables, tone arms.

TRIBAR INDUSTRIES

3650 Weston Road
Weston, Ontario, Canada
M9L 1W2
Tel: (416) 749-6000
Telex: 065-27167

Products: police traffic radar
systems; hand-held model T3
stationary radar, vehicle-mounted
DRS-3 stationary radar and
vehicle-mounted MDR-1 track
radar, for moving and stationary
use.

TRIONICS COMMUNICATIONS SYSTEMS LTD.

951 Denison Street, Unit 11
Markham, Ontario, Canada
Tel: (416) 475-2233
Telex: 06-966861

Products: rf television
equipment, digital programmable
displays, satellite receivers.

Services: repair and overhaul of
high-technology test equipment.

TRIPLE CROWN ELECTRONICS INC.

42 Racine Road
Rexdale, Ontario, Canada
M9W 2Z3
Tel: (416) 629-1111

Products: satellite earth receiving
stations, processors and
modulators for cable tv, line and
distribution amplifiers, indoor
apartment amplifiers.

TYCOR ELECTRONIC PRODUCTS LTD.

6115 - 3rd Street Southeast
Calgary, Alberta, Canada
T2H 2L2
Tel: (403) 259-3200
Telex: 03-825842

Products: AC power-line filter.

U

UNICAN SECURITY SYSTEMS LTD.

5795 De Gaspe Avenue
Montreal, Quebec, Canada
H2S 2X3
Tel: (514) 273-0451
Telex: 05-24651

Products: zinc air hearing aid
battery; electrochemical timing
elements.

UNI-TEL LTD.

1792 Birchmount Road
Scarborough, Ontario, Canada
M1P 2H7
Tel: (416) 291-3131
Telex: 06-963523

Products: equipment and systems
for supervisory control, remote
control, fault-alarm reporting,
tele-metering and data
transmission, for such customers
as telephone operating
companies, pipelines, power
generating and distributing
utilities, municipal utilities,
railroads, radio and television
broadcasters, and industrial and
manufacturing companies.

UNITRON INDUSTRIES LTD.

685 Wabanaki Drive
P.O. Box 9017
Kitchener, Ontario, Canada
N2G 4J3
Tel: (519) 893-6800
Telex: 069-5209

Products: a complete line of
hearing aids including: high
power, directional, HLC (high
level compression), high
frequency emphasis, peak
clipping, diode clipping, linear
models, frequency dependent
compression, low frequency
emphasis, and push/pull.

UNIVERSAL TECHNOLOGY INC.

1685 Ingleton Avenue
Burnaby, British Columbia,
Canada
V5C 4L8
Tel: (604) 299-8414

Products: radio remote controls
for forestry, barges, trains, mining
operations etc.

UP-RIGHT SCAFFOLDS LTD.

108 Industrial Drive
Whitby, Ontario, Canada
L1N 5Z8

Tel: (416) 261-7905
Telex: 06-981395

Products: portable aluminum microwave path-loss test towers with optional antenna dollies; installers' scaffolds.

URTEC LTD.

129 Telson Road,
Markham, Ontario, Canada
L3R 1E4

Tel: (416) 475-0660
Telex: 06-986677

Products: portable gamma ray scintillometers and spectrometers; airborne geophysical exploration systems for helicopters and fixed wing aircraft.

V

VALCOM LTD.

P.O. Box 603
Guelph, Ontario, Canada
N1H 6L3

Tel: (519) 824-3220
Telex: 069-56593

Products: fibreglass whip antennas, free standing 35 ft. to 80 ft. (10.7 m to 24.4 m) 2 to 30 MHz both military and commercial versions; auto tune couplers, 1kW to 10 kW; power supplies, cable assemblies, amplifiers, antennas, splitter panels, electronic assembly work.

VARIAN ASSOCIATES OF CANADA LTD.

45 River Drive
Georgetown, Ontario, Canada
L7G 2J4

Tel: (416) 457-4130
Telex: 069-7502
TWX: 610-492-2641

Products: microwave tubes — millimeter wave tubes up to 220 GHz, klystrons, travelling wave tubes, magnetrons; power supplies — travelling wave tubes and klystrons; magnetometers — cesium and proton, portable, airborne, and underwater; Klystron power amplifiers.

VERTICAL DATA SYSTEMS INC.

1215 Meyerside Drive, Unit 2A
Mississauga, Ontario, Canada

L5T 1H3

Tel: (416) 671-1752
Telex: 06-968905

Products: converters for Olivetti typewriters that transform a typewriter to a printer without affecting normal typewriting functions.

VESTSHELL INC.

10351 Pelletier Avenue
Montreal North, Quebec, Canada
H1H 3R2

Tel: (514) 326-1280
Telex: 05-829586

Products: precision investment casting of ferrous alloys; silicon iron; monel; cobalt alloys; soft magnets.

VISCOUNT INDUSTRIES LTD.

105 East 69 Avenue
Vancouver, British Columbia,
Canada

V5X 2W9
Tel: (604) 327-9446
Telex: 04-508605

Products: television systems, studio equipment and special-effects generators.

VOLKER-CRAIG LTD.

(See Nabu Commercial Terminals)

W

WR COMMUNICATIONS LTD.

1655 West 3rd Avenue
Vancouver, British Columbia,
Canada

V6J 4V7
Tel: (604) 732-3342
Telex: 04-54542

Products: VHF and UHF mobiles, base stations, remote controls, repeaters and paging systems.

WARD AUTOMOTIVE ELECTRONICS OF CANADA LTD.

188 Bentworth Avenue
Toronto, Ontario, Canada
M6A 1P8

Tel: (416) 789-1167
TWX: 610-491-0462

Products: vehicular antennas.

WARD-BECK SYSTEMS LTD.

841 Progress Avenue,
Scarborough, Ontario, Canada

M1H 2X4

Tel: (416) 438-6550
Telex: 065-25399

Products: Audio and TV broadcast consoles and associated equipment.

WEBER ELECTRONICS

105 Brisbane Road
Downsview, Ontario, Canada
M3J 2K6

Tel: (416) 663-5670
TWX: 610-492-1337

Products: printed-circuit card-edged connectors.

WELLSDALE RESEARCH LTD.

5508 - 142A Avenue,
Edmonton, Alberta, Canada
T5A 1J8

Tel: (403) 459-0380

Products: remote weather stations, suitable for radios or satellite data link.

WELTRONIC COMPANY

P.O. Box 1088
Windsor, Ontario, Canada
N9A 6P4

Tel: (519) 966-0230

Products: resistance welding electronic controls; solid-state and microprocessor.

WESTECH SYSTEMS LTD.

12852-141 Street
Edmonton, Alberta, Canada
T5L 4N8

Tel: (403) 452-8450

Products: automatic, medium-capacity mobile telephone systems.

WESTERN RESEARCH & DEVELOPMENT LTD.

1313 - 44th Avenue Northeast
Calgary, Alberta, Canada
T2F 6L5

Tel: (403) 276-8806
Telex: 038-24684

Products: pollution monitoring equipment, source and ambient; continuous stack emission

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monitoring systems — SO_2NO_x , O_2 and particulates; H_2S analyzers; ambient monitoring systems and data handling packages; sulphur plant process measurement and control systems; sales gas H_2S analyzer (fast response UV photometric analyzer); and total reduced sulphur, dual-flame photometric analyzer system for kraft pulp and paper industry.

WESTERN SCALE CO. LTD.

1670 Kingsway Avenue
Port Coquitlam, British Columbia,
Canada

V3C 3Y9

Tel: (604) 941-3474

Products: digital weight indicators; microprocessor control systems; rate feeders; data-recording devices.

WESTINGHOUSE CANADA INC.

P.O. Box 5009
Burlington, Ontario, Canada
L7R 4B3

Tel: (416) 528-8811

Telex: 061-8409

Cable: WESTCAN HAMILTON

Products: computer terminals and display systems for video presentation of digital information; communications controllers for polling, message switching and control in digital networks; line tracing systems for automatic contour control of gas and plasma cutting and other machine tool applications; electrohydraulic, pneumatic and electronic industrial instrumentation devices and integrated systems using such components for the measuring, recording and controlling of industrial systems; semi-conductor bridge assemblies; nuclear protection and monitoring systems; sonar and other forms of underwater sound detection and weapon control systems; airborne and surface electronic data gathering and weapon control systems; electronic manufacturing and engineering subcontract services.

WESTRONIC SYSTEMS LTD.

7 West 7th Avenue
Vancouver, British Columbia,

Canada

V5Y 1L4

Tel: (604) 872-8581

Products: microprocessor-based SCADA systems and remote terminal units; alarm and annunciator systems; FSK tone modems; sequence of events recorders.

WILLOWGLEN SYSTEMS LTD.

1235 - 64 Avenue Southeast
Calgary, Alberta, Canada
T2H 2J7

Tel: (403) 253-3051

Telex: 03825630

Products: VASCON-200 data acquisition and supervisory control system; VASCON-220 process controller computer based 4 mode process controller.

THE WIND TURBINE CO. OF CANADA LTD.

21 Howard Avenue
Elmira, Ontario, Canada
N3B 2C9

Tel: (519) 669-5421

Telex: 069-55282

Products: wind-driven generators; microwave and high-frequency antennas; broadcasting towers and transmission lines.

WYNCHESTER SYSTEMS AND ELECTRONICS INC.

5 Penn Drive
Weston, Ontario, Canada
M9L 2A6

Tel: (416) 745-6455

Telex: 06-986766

Products: 8 and 16-bit small-business computers utilizing the S-100 bus design, which run the CP/M or CP/M-86 operating systems; equipment comes packaged with diskette drives; options include hard disks, letter-quality or dot-matrix printers, etc.

Y

YORKVILLE SOUND LTD.

80 Midwest Road
Scarborough, Ontario, Canada
M1P 4R2

Tel: (416) 751-8481

Telex: 06-96371

Products: musical-instrument

amplifiers, sound-reinforcement systems, amplifiers, speakers and accessories.

Z

ZBK TELECOMPUTERS

8110 Trans-Canada Highway
South

St. Laurent, Quebec, Canada
H4S 1M5

Tel: (514) 331-9102

Telex: 05-825558

Products: model 7500 universal terminal controller; VVSET; Telex control unit; multiplexer packet assembler disassembler X.25; word processors (disc, hard, cartridge, pack etc.); microcomputers; controllers and processors (BDU non-intelligent, BDU intelligent may have, and BDU cluster multi-station peripherals); communications network front end processing software; and data communications equipment (selectors, code converters, storage, and buffers).

ZVOKK CORPORATION

8 King Street East, Suite 205
Toronto, Ontario, Canada
M5C 1B5

Tel: (416) 368-2723

Products: computer-assisted learning (CAL) system featuring text-to-voice capability; micro-processor-based portable hand-held device reads specially prepared printed text and enunciates textual content; text is man and machine readable; system applicable to wide variety of educational/instructional tasks including language, vocational, professional and management training, academic subjects, etc.; well suited for self-study; voice capability easily added to existing printed learning materials.

CONSULTANTS

A

ADGA GROUP

116 Albert Street, Suite 400
Ottawa, Ontario, Canada
K1P 5G3

Tel: (613) 237-3022

Telex: 053-4563

Cable: ADGA OTT

Services: engineers and systems analysts.

ALTERNATIVE THREE SYSTEMS LTD.

202 Sheppard Avenue West
Willowdale, Ontario, Canada
M2N 1N1

Tel: (416) 222-4906

Services: complete systems consulting services from specification to implementation.

B

BARRINGER RESEARCH LTD.

304 Carlingview Drive
Metropolitan Toronto
Rexdale, Ontario, Canada
M9W 5G2

Tel: (416) 675-3870

Telex: 06-989183

Cable: BARSEARCH TORONTO

Services: program participation and management; consulting and contracting; laboratory analyses; ground and airborne pollution monitoring.

BELL CANADA-INTERNATIONAL MANAGEMENT, RESEARCH AND CONSULTING LTD.

1 Nicholas Street, 8th Floor
Ottawa, Ontario, Canada
K1G 3J4

Tel: (613) 563-1811

Telex: 053-4849

Services: expertise in all facets of telecommunications on consulting or turnkey basis; forecasting, planning and studies; management, construction and turnkey operation; engineering, furnishing and installation; operations and maintenance; training; computer communications; staff has worked in more than 40 countries.

BRISTOL AEROSPACE LTD.

P.O. Box 874

Winnipeg, Manitoba, Canada

R3C 2S4

Tel: (204) 775-8331

Telex: 07-57774

TWX: 610-671-3598

Cable: BRISAIRCO

Services: data acquisition studies in the fields of pollution, meteorology, hydrology, oceanography and machine diagnostics; various methods of data acquisition are studied and recommendations are made, and design, fabrication, and installation of complete systems can be provided; complete engineering services for sounding rocket payloads from feasibility studies to instrument development and test flight.

C

CABLE CONSULTING SERVICES LTD.

R.R. 1

Terra Cotta, Ontario, Canada

LOP 1N0

Tel: (416) B38-2317

Services: management and engineering consulting services for all aspects of cable television distribution systems, including feasibility studies, cost projections and engineering design; design of microwave systems and interference studies for satellite earth stations.

CANADA SYSTEMS GROUP LTD.

1736 Courtwood Crescent
Ottawa, Ontario, Canada

K2C 2B5

Tel: (613) 225-1171

Telex: 053-3661

Services: software and systems engineering in the field of computer systems and applications; methods analysis and management engineering; particular applications: air-traffic-control simulation, Telex switching, vehicle dispatch.

CANADIAN ASTRONAUTICS LIMITED

Suite 201,

1024 Morrison Drive,

Canada in the world of electronics

Ottawa, Ontario, Canada
K2H 8K7
Tel: (613) 820-8280

Services: satellite system design studies.

CANADIAN PACIFIC CONSULTING SERVICES LTD.

740 Notre Dame Street West,
Suite 760,
Montreal, Quebec, Canada
H3C 3X6
Tel: (514) 395-7799
Telex: 055-60147
Cable: CANPAC MONTREAL

Services: consulting specialists in planning, system engineering, construction, operation and administration of general telecommunication services; broad spectrum of services also available in respect to computer communication systems and railway signalling and communication systems.

CANSULT LTD.

275 Duncan Mill Road
Toronto, Ontario, Canada
M3B 3H9
Tel: (416) 445-9431
Telex: 06-966783
Cable: CANSULT TORONTO

Services: specializing in such fields as power transmission and communication, power stations, electrical installations, industrial utilities, airports and air transport, townsite master planning; townsite infrastructure.

CANTEL ENGINEERING ASSOCIATES LTD.

402 West Pender Street
Vancouver, British Columbia,
Canada
V6B 1T6
Tel: (604) 684-1144
Telex: 04-507775
Cable: CANTELCOM

Services: feasibility studies, field surveys, design and specification, tender evaluation, project management, briefs to government authorities, inspection and training, with the following specialization: broadcasting (AM,

FM, TV and CATV), microwave, mobile, satellite, data communications and telephony.

DAVID E. CLOSE

Management Consultant
22 Edgewood, Route 3,
Bath, Ontario, Canada
K0H 1G0
Tel: (613) 389-7601

Services: consulting management in the productive application of CAD/CAM and interactive computer graphics technology. Services include investigation and preparations for bringing CAD/CAM into the engineering and manufacturing organization, its implementation and management.

COLE, SHERMAN & ASSOCIATES LTD.

2025 Sheppard Avenue East
Willowdale, Ontario, Canada
M2J 1W3
Tel: (416) 491-4503
Telex: 06-966647
Cable: CSAINC, TOR

Services: postal engineering.

CUSHING & NEVELL TECHNICAL & COMMERCIAL PUBLICATIONS LTD.

120 Eglinton Avenue East
Toronto, Ontario, Canada
M4P 1E2
Tel: (416) 487-2866

Services: electronic technical advertising and technical writing, with language capability.

D

DGB CONSULTANTS INC.

P.O. Box 40
Desjardins Postal Station
Montreal, Quebec, Canada
H5B 1B2
Tel: (514) 282-9531
Telex: 055-61718

Services: professional services in the telecommunication and computer fields; feasibility studies, systems concept and design, preparation of plans and specifications, analysis of bids from suppliers; project management, training of personnel and commissioning.

DIGHEM LTD.

Suite 7010, P.O. Box 178
1 First Canadian Place
Toronto, Ontario, Canada
M5X 1C7
Tel: (416) 862-7568
Telex: 06-219566

Services: helicopter-borne geophysical surveys; interpretation of geophysical data.

DIGITECH SYSTEMS

500, 441 - 5th Avenue South West
Calgary, Alberta, Canada
T2P 2V1
Tel: (403) 265-3484

Services: digital processing of land and marine geophysical survey data for the petroleum exploration industry; seismic processing and software systems; geophysical modelling and software systems; gravity and magnetic processing; custom geological file development; custom geophysical file development; digitizing services and software systems; mapping services and software systems.

DYNAMIC SYSTEMS GROUP

405 - 805 8 Avenue Southwest
Calgary, Alberta, Canada
T2P 1H7
Tel: (403) 264-1216

Services: real-time microcomputer control systems design, consulting and programming services.

E

THE ECE GROUP

205 Lesmill Road
Don Mills, Ontario, Canada
M3B 2V1
Tel: (416) 449-1030
Telex: 06986141

Services: feasibility studies; design and specification of electronic communications and control systems; installation management; reports; negotiations with utilities; microprocessor applications — both hardware and software; tender evaluations; inspection; environmental and energy management.

G

GEOPHYSICAL SURVEYS INC.

2272 Leon Hamel
Quebec City, Quebec, Canada
G1N 4L2
Tel: (418) 687-4055
Telex: 051-31523
Cable: GEOAIR

Services: ground and airborne geophysical surveys.

GEOTERREX LTD.

2060 Walkley Road
Ottawa, Ontario, Canada
K1G 3P5
Tel: (613) 731-9571
Telex: 053-3502
Cable: GEOTERRA

Services: airborne geophysical exploration: high-sensitivity aeromagnetics, high-sensitivity radiometrics, Barringer-input airborne electromagnetic; ground geophysical exploration follow-up of airborne electromagnetic surveys; magnetic, electro-magnetic, induced polarization, resistivity, gravity and seismic surveys; marine geophysics: bathymetry.

J.D. GORRIE & ASSOCIATES LTD.

136 Bedford Park Avenue
Toronto, Ontario, Canada
M5M 1J1
Tel: (416) 484-8396

Services: software and computer systems consultants, with specialists in real-time control systems, energy-management systems, microcomputer applications, custom turnkey business systems, local area networks and compilers; provision of development services, management and technical consulting and personnel for staff augmentation; clients range from multinationals to small businesses.

H

HN ENGINEERING INC.

4664 Lougheed Highway
Burnaby, British Columbia, Canada
V5C 5R7
Tel: (604) 294-3401
Telex: 043-54623

Cable: HN ENG VCR

Services: systems engineers with expertise in telecommunications transmission systems (microwave, troposcatter, radar, satellite, UHF, VHF, HF, MF, powerline carrier, VF cable, fibre optics); telephony systems (CO and PABX equipment, private networks, outside plant, station equipment, traffic and tariff studies); data/control systems (datacom facilities, computer hardware, applications software, SCADA systems); broadcasting stations (AM and FM radio, television, cable TV, closed-circuit TV, TVRO earth stations); range of services offered includes project management; system evaluations, feasibility studies, short and long-term system planning; preparation of applications for licensing authorities; conceptual and detailed system design; preparation of specifications for tender purposes; evaluation of tenders and assistance in contract negotiation; supervision of construction, including factory and field testing; implementation and operations assistance.

WILLIAM G. HUTCHISON & CO. LTD.

2025 Sheppard Avenue East
Willowdale, Ontario, Canada
M2J 1V7
Tel: (416) 498-5344
Telex: 06-966710

Services: computer consulting — high technology.

I

INFOMART

164 Merton Street
Toronto, Ontario, Canada
M4S 3A8
Tel: (416) 489-6640
Telex: 06-221111

Services: database search services and videotex services and systems for the information user.

INTERA ENVIRONMENTAL CONSULTANTS LTD.

400-7015 Macleod Trail
Calgary, Alberta, Canada
Tel: (403) 253-8895
Telex: 03-824537

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Services: groundwater-contamination and air-quality engineering and consulting services.

INTERNATIONAL AERADIO (NORTH AMERICAN) LTD.

70 Don Park Road, Unit 15
Markham, Ontario, Canada
L3R 1G4

Tel: (416) 475-1144
Telex: 06-986818

Services: handling turnkey contracts in the two-way manned mobile-radio field; provision of a computer-aided dispatch system for transit operations.

K

KENDALL ASSOCIATES LTD.

77 Metcalfe Street, Suite 406
Ottawa, Ontario, Canada
K1P 5L6

Tel: (613) 236-0875
Telex: 053-3560

Cable: KENMARK

Services: marketing consultants specializing in surveys and studies for clients interested in North American defence or technical markets; provision of temporary technical personnel in electronics, aerospace and computer technology.

KENTING EARTH SCIENCES LTD.

380 Hunt Club Road
Ottawa, Ontario, Canada
K1G 3N3

Tel: (613) 521-1630
Telex: 053-4173

Cable: KENSCI

Services: aerial photography; remote sensing; airborne geophysics; airborne profile recording; interpretation of imagery; interpretation of geophysical data; surveying and mapping; geodetic surveys.

M

MACLAREN ENGINEERS INC.

33 Yonge Street
Toronto, Ontario, Canada

M5E 1E7

Tel: (416) 365-7337

Telex: 06-23765

Cable: JAYMAC

Services: environment assessment, control and monitoring; instrumentation and control design.

MILLER COMMUNICATIONS SYSTEMS LTD.

300 Legget Drive
Kanata North Business Park
Kanata, Ontario, Canada
K2K 1Y5

Tel: (613) 592-3020
Telex: 053-4164

Services: operates principally in the area of systems engineering, specializing in satellite communications systems planning; the company has the capability to design, construct, and install communications facilities of a highly customized nature in a short time frame.

MONTREAL ENGINEERING CO. LTD.

P.O. Box 6088, Station A
2045 Stanley Street
Montreal, Quebec, Canada
H3C 3Z8

Tel: (514) 286-3636
Telex: 055-60735

Cable: MONENCO

Services: consulting engineering services in communications and supervisory control systems for power generating plants, electric power transmission networks (including high voltage DC), pipelines, pumping stations and industrial plants.

MOSAID INCORPORATED

P.O. Box 13579
Kanata, Ontario, Canada
K2K 1X6

Tel: (613) 836-3134
Telex: 053-4986

Services: specializes in the design and design analysis of MOS memory chips; is equipped for state-of-the-art circuit and layout design of devices such as VLSI dynamic RAMs; on-site work is undertaken to see designs into production and the company works with a U.S. processing

house to prove-in designs before transfer if required; undertakes the analysis of commercially available memory devices and has available reports describing the circuit design and operation of virtually every MOS dynamic RAM and some static devices; design seminars are given using this data base; operates worldwide with major users and suppliers of memory devices in three continents; also supplies a unique MOS circuit analysis computer-aided design program that can be used for the most demanding MOS design work.

N

NATIONAL ELECTROLAB LTD.

1536 Columbia Street
North Vancouver, British
Columbia, Canada
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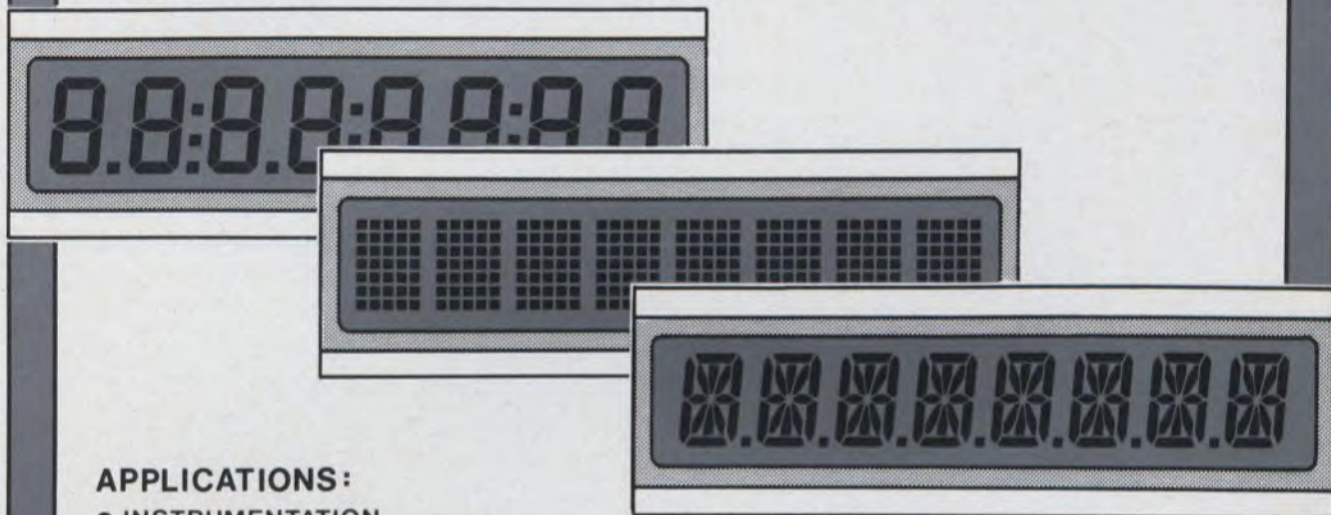
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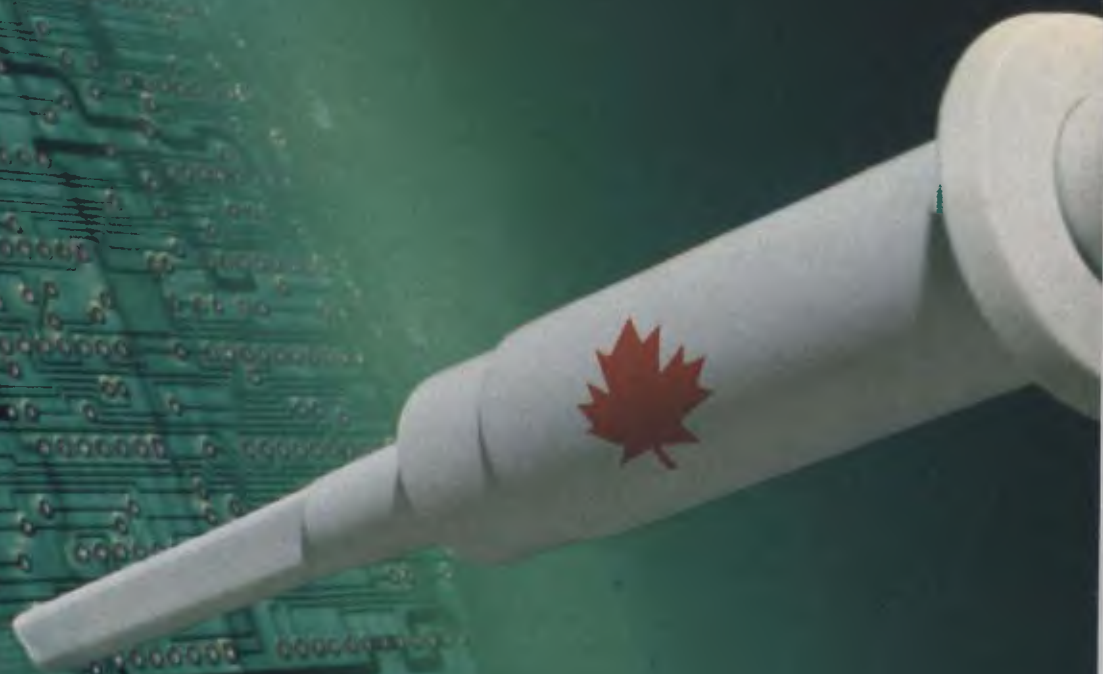
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Systems Ltd.
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Neosid (Canada) Ltd.
Raytheon Canada Ltd.
Reliance
Telecommunication
Products Ltd.

Canada in the world of electronics

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of Canada Ltd.
SR Telecom Inc.
Spar Aerospace Ltd.
Tribar Industries
Trionics Communications
Systems Ltd.
Uni-Tel Ltd.
Varian Associates of
Canada Ltd.

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Richard Brancker Research
Ltd.
CAE Electronics Ltd.
CVDS Inc.
Calgary Controls Ltd.
Canada Systems Group Inc.
Century III Electronics Inc.
Conspec Controls Ltd.
Consultronics Ltd.
Contronic Controls Ltd.
Dicon Systems Ltd.
Electric Power Equipment
Co.
Electrohome Electronics
Electro Vox Industries Inc.
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Manufacturing Ltd.
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Red Pine Instruments Ltd.
SED Systems Inc.
Simtron Ltd.
Sioc Ltd.
Sonotek Ltd.
Sperry Inc.
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Westronic Systems Ltd.

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Gandalf Data Ltd.
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Industries (Canada) Ltd.
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Systems Ltd.
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Cardion/DGI Division
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Leigh Instruments Ltd.
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Novatech Designs Ltd.
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Development Co. Ltd.
Pylon Electronics Ltd.
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Ltd.

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Ltd.
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Weltronic Co.

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Ltd.

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Lloyd Controls Ltd.
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Positron Industries Inc.
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Products Ltd.

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ADVERTISERS' INDEX

Adaptive Microelectronics Ltd.	18	Garrett Manufacturing Limited	4
ADGA Group	53	Glenayre Electronics Ltd.	102
Camptech Circuits Inc.	100	ITT Cannon	IBC
Century III Electronics Inc.	93	ITT Industries of Canada Ltd., Communications Division	107
Circo-Craft Co. Inc.	94	K B Electronics Ltd.	100
Com Dev Ltd.	98	Mitel Corp.	OBC
Comptec International Ltd.	92	Motorola Ltd.	102
Comterm Inc.	101	Murata Erie North America, Inc.	82
Croven Crystals	95	Northern Telecom Ltd.	54,55
CTS of Canada, Ltd.	96, 103, 106	Orcatech Inc.	108
Cybernex Ltd.	97	Scintrex Ltd.	62
Data Images Inc.	77	Spar Aerospace Ltd.	1
DGW Electronics Corp. (Compar Div.)	84	Targa Electronics Systems Inc.	78
Digital Graphics Ltd.	32,33	Telecom Power Corp.	67
EDAC Inc.	99	Tycor Electronic Products Ltd.	56
Elinca Communications Ltd.	37	Volker-Craig Ltd.	IFC
Fairchild & Stairs Manufacturing Ltd.	104	Westinghouse Canada Inc.	104
Farinon Canada	2		

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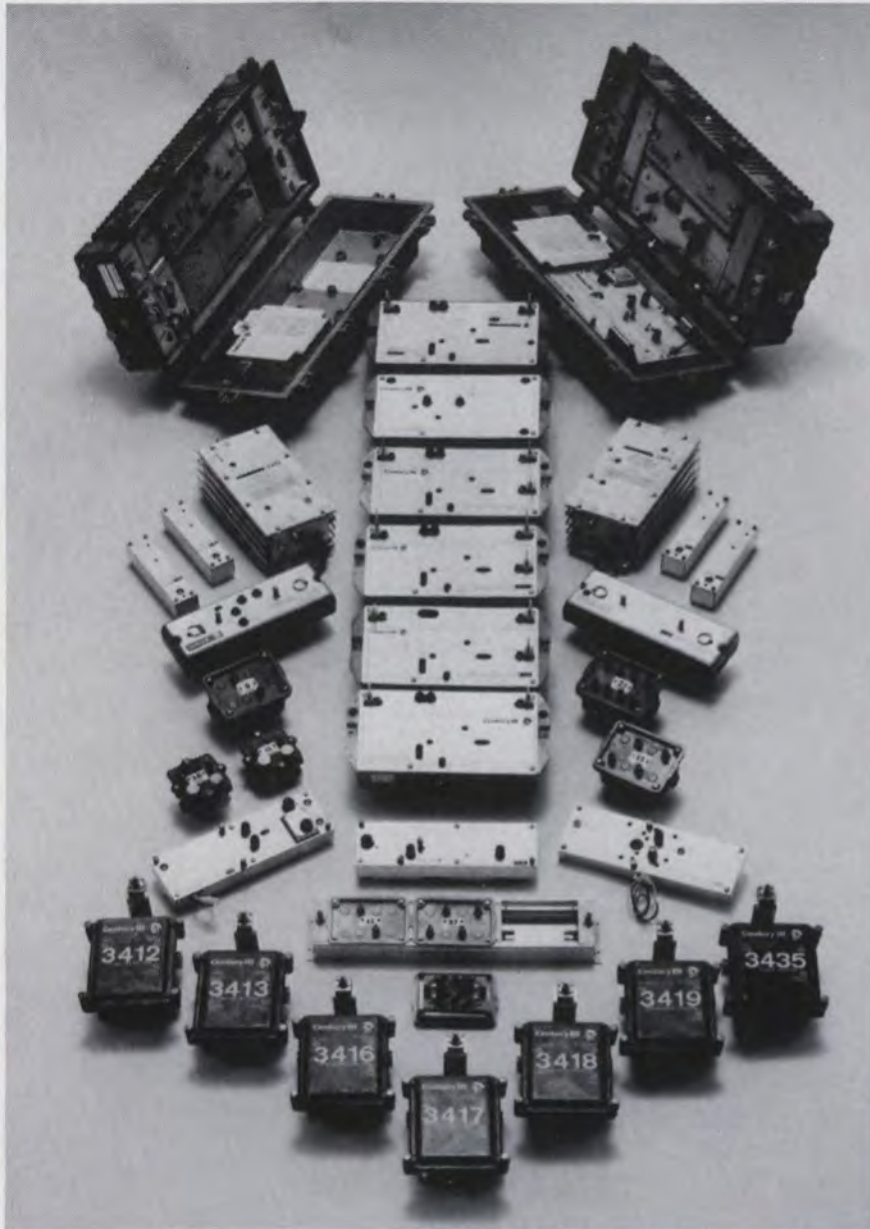
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Century III Electronics, Inc.
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2-77-78

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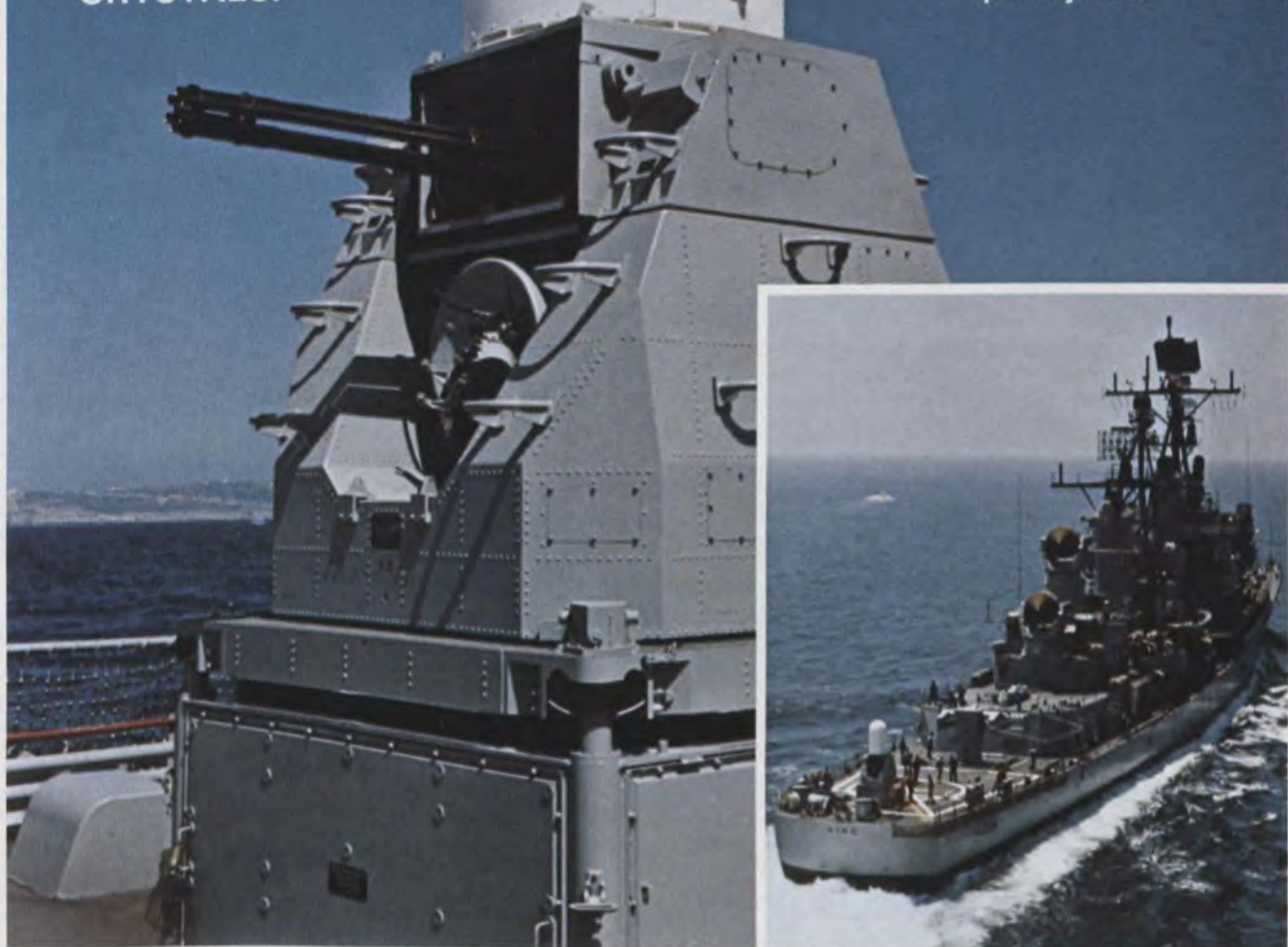
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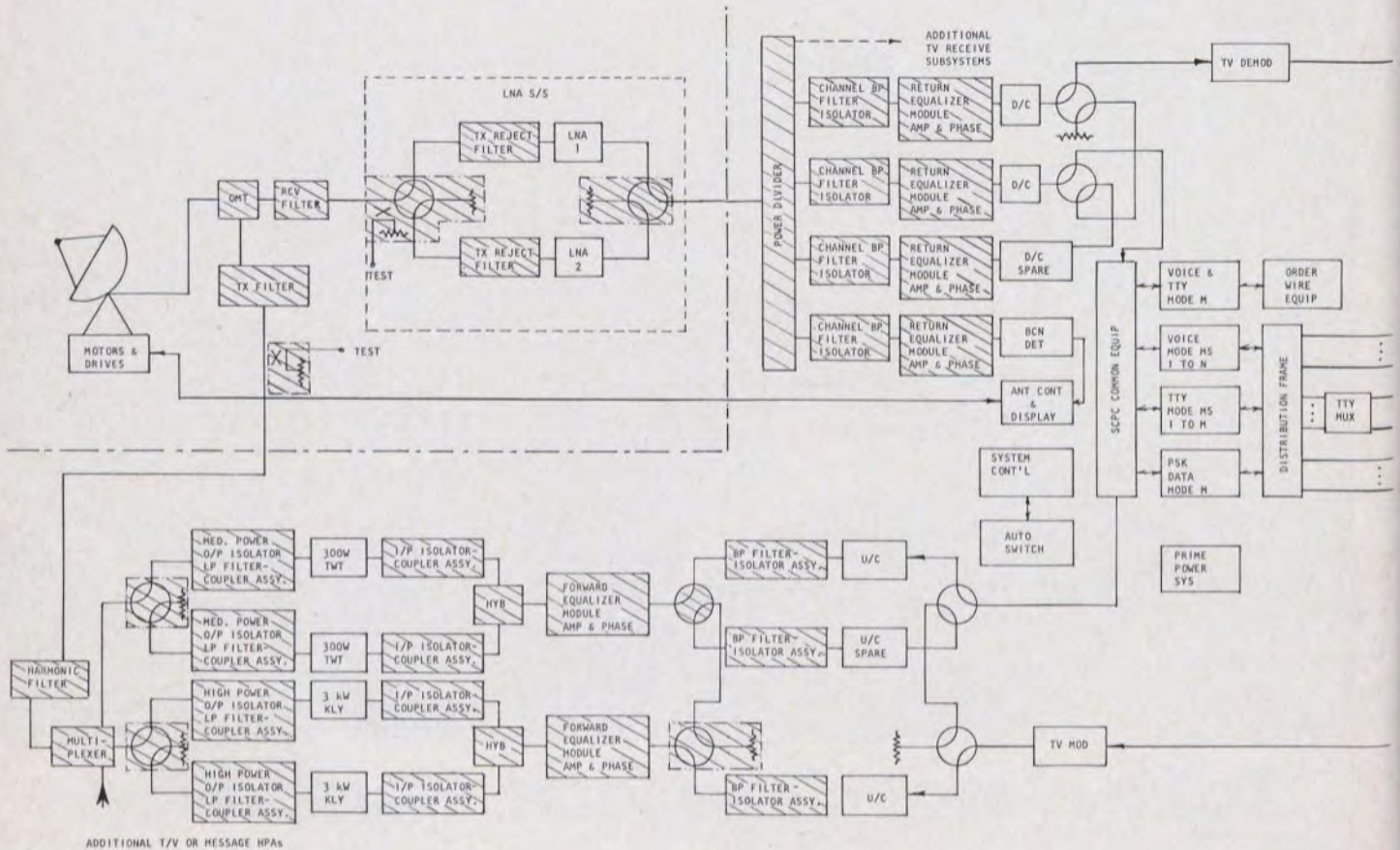


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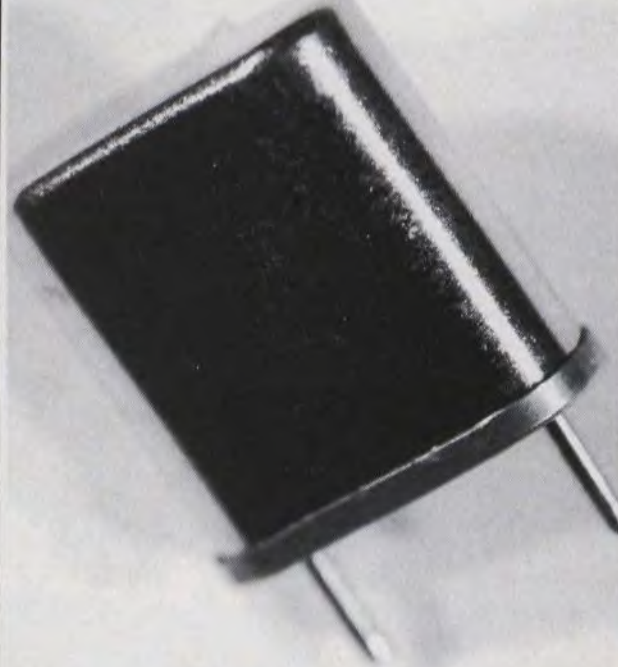


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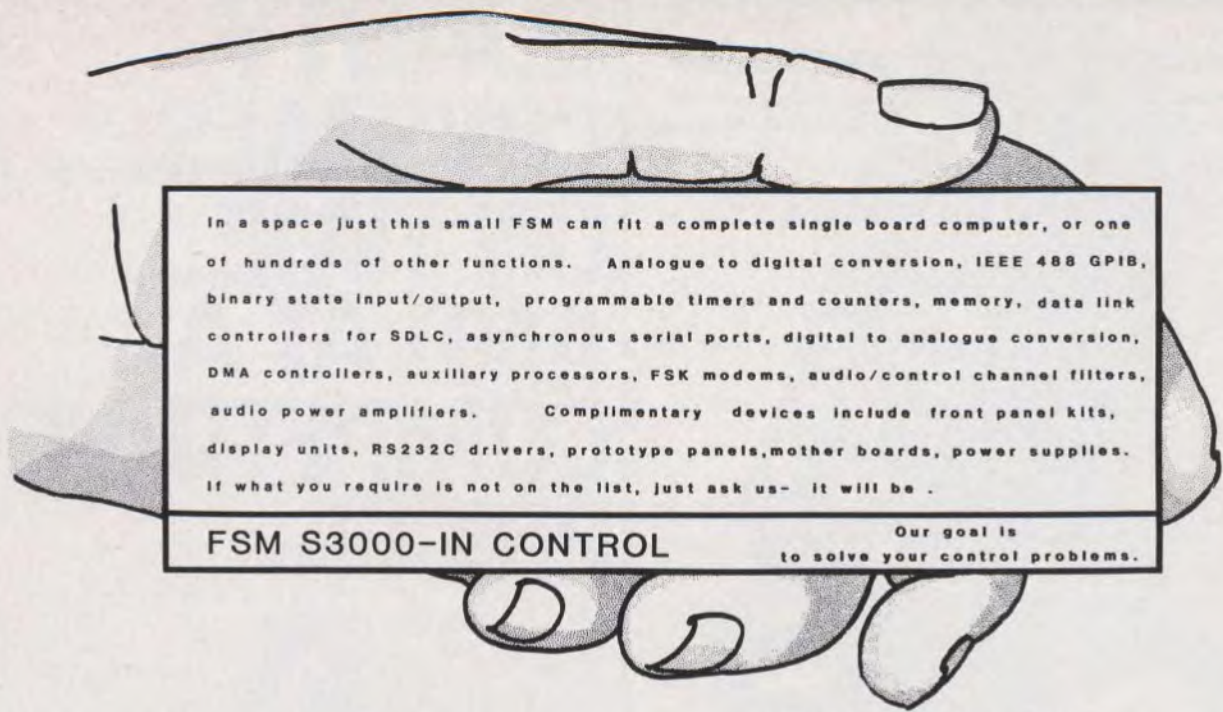


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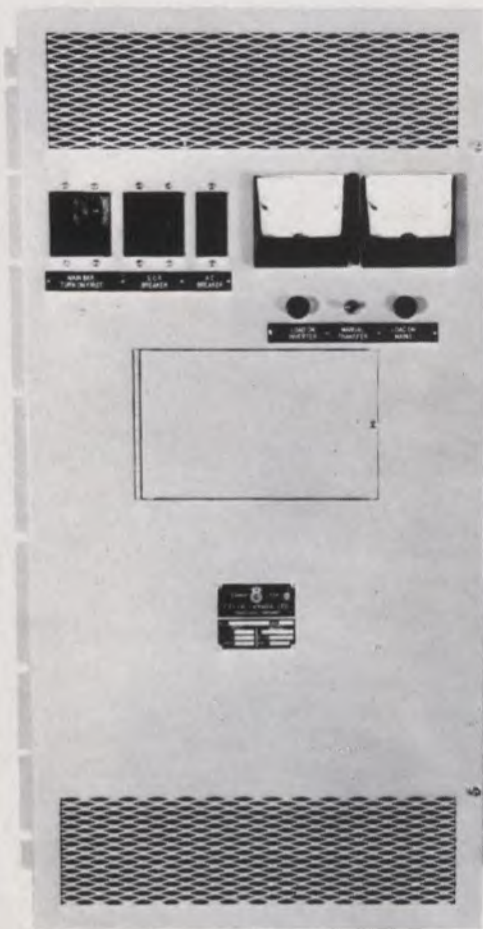
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