PRODUCT PROFILE

Products, services for the computer systems design professional

If you are interested in presenting your products to the 20,000 computer design professionals who read COMPUTER, and would like more information on this convenient, low-cost medium, contact: Product Profile, COMPUTER, 8949 Reseda Blvd., Northridge, Calif. 91324.

Information on the products and services advertised in PRODUCT PROFILE may be obtained by writing the product listing's number (in parenthesis at the beginning of each listing) on the postage-paid reader service card in this issue.

Systems & Processes

(166) Computer Packaged Leasing Program: Worth reading brochures/data on Itel Corporation Computer Packaged Lease Program; IBM System/370 leased on short term basis/complete flexibility/large savings; complete computer package consisting of System/370, Itel Disk Drives, Itel Fixed Head Files, Itel Tape Drives/AMS Monolithic Memory; lease terms range from 3-8 years; definitely merits closest consideration — Itel Corporation, One Embarcadero Center, San Francisco, Calif. 94111.

(162) Disc Controllers: Comprehensive detailed information on Telefile Disc Controllers; handles up to 8 disc drives for almost any non-IBM computer; DC-16 helps out most 16 bit minis; DC-18, DC-32, DC-36, DC-10 brings IBM compatible drives together with PDP-15's, Sigma 3068, Lawrence, Kansas 66044

Peripherals

(162) Disc Controllers: Comprehensive detailed information on Telefile Disc Controllers; handles up to 8 disc drives for almost any non-IBM computer; DC-16 helps out most 16 bit minis; DC-18, DC-32, DC-36, DC-10 brings IBM compatible drives together with PDP-15's, Sigma 3068, Lawrence, Kansas 66044

(A313) Minicomputer: Concise, factual information on PDAC Minicomputer; created to satisfy demand in education, industry, laboratories for low cost mini-computer use; rack-mountable minicomputer features 22 basic instructions, indirect addressing, 2.5 usec cycle, memory bus for MOS memory expandable to 1K, operator console, single step operation for instructional purposes, I/O bus for up to 8 I/O modules; additional features merit study. — Kantronics Company, Inc., P.O. Box 7795 Sky Park Circle, Irvine, Calif. 92664.

(170) Tape Transports: Comprehensive detailed information on PSC Low Cost Tape Transports; features include interface industry standard; 7", 8-1/2", 10-1/2" reel size: 6.25, 12.5, 25, 37.5, 45 IPS; phase encoding, NRZI; 200, 556, 800, 1600 CPI; single/dual gap heads; write, read, read/write, read after write; power fail safe; solid state IC logic; definitely merits closest consideration.

(A324P) Minicomputer: Concise, factual information on D-116 16-Bit Minicomputer; includes four full 16-bit accumulator registers, DMA data channel operations at memory speed of 1.2 usec; available software includes assembler/editor, debugger/Basic Compiler; D-116, can support up to 64K core memory central processor, power supply, TTY interface, I/O capability for four peripherals in a 5½ inch chassis. — Digital Computer Controls, Inc., 12 Industrial Road, Fairfield N.J. 07006.

(A313) Minicomputer: Concise, factual information on PDAC Minicomputer; created to satisfy demand in education, industry, laboratories for low cost mini-computer use; rack-mountable minicomputer features 22 basic instructions, indirect addressing, 2.5 usec cycle, memory bus for MOS memory expandable to 1K, operators console, single step operation for instructional purposes, I/O bus for up to 8 I/O modules; additional features merit study. — Kantronics Company, Inc., P.O. Box 7795 Sky Park Circle, Irvine, Calif. 92664.
(174) Computer/Instrumentation Peripherals: Full details on Model 95 Computer/Instrumentation Peripherals: accepts serial by character/full parallel B.C.D. data inputs/TTL compatible; print speed up to 3 lines (36 characters) per second; 12-column capacity/using numerals or limited alpha characters; 12 characters available in each column; available with case/interface/power supply; definitely calls for closest consideration. – Addmaster Corporation, 416 Junipero Serra Drive, San Gabriel, Calif. 91776.

(172) Digital Cartridge Recorder: Full details on the Kennedy Co. Model 330 Digital Cartridge Recorder. Combines the new 3M one-quarter-inch tape cartridge with its isoelectric drive system, and proven Kennedy electronics; the first cartridge recorder designed solely for high-reliability data recording. Tape drive is fully bidirectional at 25 ips normal speed, resulting in a data transfer rate of 40,000 bits/second at 1600 cps recording density. Forward and reverse search modes, as well as reverse wind speed, are 90 ips. With 300 feet of high grade 0.25” one mil tape, total data capacity (gapless) is 23 x 10^6 bits for 4-track operation. Model 330 meets the proposed ANSI standard. Model 330 is equipped with a dual gap read/write head for read-after-write operation. One, two and four-track versions are available. Each track is treated independently, allowing cartridge interchange between transports of differing track configurations. Each track is equipped with a separate erase gap to ensure against inadvertent data erasure. – Mr. Russell E. Bartholomew, Kennedy Co., 540 W. Woodbury Road, Altadena, Calif. 91001, (213) 798-0953.

(B221) Random-Access Memory System: Full details on Innovex Random-Access "floppy disk" Memory System; disk drive/removable cartridge built with radically new design concepts; interchangeable cartridge is sheet of computer grade magnetic tape tightly stretched in 9” x 11” by 1/4” plastic frame; 64 circular tracks on tape store 1.3 million bits of information; additional features merit further study/consideration. – Innovex Corporation, 4 Alfred Circle, Bedford, Mass. 01730.

(214) CRT Data Terminal: Concise, factual information on Series 4000 CRT Data Terminal; delivers editing power, display/control command, computer interface flexibility to meet most stringent system requirements; features include APL terminal capability, page flip with scroll through pages, unique text editing/page justify, plus much more; definitely warrants closest consideration. – Sugarman Laboratories, Inc., 3 Fairchild Court, Plainview, N.Y. 11803

(210) Magnetic Sensor: Full details on 3050 Magnetic Sensor; new miniature non-contact magnetic sensor offers greatly improved magnetic efficiency/better signal to noise ratio over comparable designs; extremely compact; stainless steel shell measures 1” in over-all length—has S/B 1/4”-40 UNS-2 A mounting thread; developed expressly for computer peripheral use; additional features merit further study/consideration. – Electro Corporation, 1845 57th Street, Sarasota, Fla. 33580

(C316P) Data Communication Terminals: Concise, factual information on Computer Devices full line of Data Communication Terminals; CDI 1030 Teleterm offers remote time-shared computer users lightest, fastest, lowest cost portable computer terminal on market, special models include APL and MULTICS; CDI 930 Teleterm offers computer access to minicomputer/special digital equipment users; additional features/terminals merit further study.– Computer Devices Inc., 9 Ray Avenue, Burlington, Massachusetts 01803, phone 617/273-1550.

(M319P) Printers: Concise, factual information on Data
Printer full line of Printers; Model V-132-C – 600 LPM
Max, 132 columns/line; Model
236 – 132 columns printout
at 200 LPM, 96 columns at
300 LPM, 48 columns at 600
LPM; Model 306 – 132
columns printout at 300 LPM,
72 columns at 600 LPM; gen-
eral specifications include
single line memory, interface
per DPC S-1003; merits
study.— Data Printer
Corporation, 201 Vassar
Street, Cambridge, Mass.
02139

Optical Mark Docu-
ment Reader: Data of marked
interest to the computer pro-
fessional on 5098 Optical
Mark Document Reader; ter-
ninal reads pencil-marked/
pre-printed data from pre-
pared forms, tags, page-sized
documents; valuable to such
requirements as remote order
entry, inventory reporting,
questionnaire handling, meter
reading, insurance-record
handling, etc.; reads data from
source documents, assembles
it into ASCII alphanumeric
characters; additional features
merit study.— Datum Inc.,
170 East Liberty Avenue,
Anaheim, Calif. 92801

Disc System: Comprehensive
detailed information
on DIVA’s newest total Disc
System; has capacity of 29
million bytes, transfer rate of
312,000 bytes per second,
average access time of 35
milliseconds; offers mini user
—with mini budgets—opportu-
nity to break away from
2310/upgrade disc systems by
order of magnitude; definitely
merits further study.— Diva
Inc., 607 Industrial Way West,
Eatontown, N.J. 07724

Instruments

(167) Programming Tools:
Programmer’s Kit; profession-
al programming instruments
in a custom fitted briefcase;
Hexa Dat; hex calculator, 8
digits/credit balance/automatic
complement feature, etc.; Octa-
dat; octal calculator, 6 digits/credit
balance/automatic complement
feature, etc.; Radix
Precision Co., Box 13861,
Atlanta, Ga. 30324.

(227) Quartz Solid-State
Watches: Full details on HM-
11 Quartz Solid State
Watches; available in gold
plated case; have special
appeal to customers having
interest in Solid State time-
pieces, but rejected idea of
purchasing such watch, due
to bulkiness of earlier models;
actually rugged small com-
puter; pulses from computer
activate liquid crystal digital
display, which indicates hours/
minutes; additional features
merit further study.— Microma
Inc., 10260 Bubb Road,
Cupertino, Calif. 95014.

(312P) Color CRT Monitors:
Comprehensive, detailed
information on Model 8001
Color CRT Monitors; high
resolution, four-color CRT
monitors for general purpose
graphics in red, orange,
yellow, green; resolution
speed, light output, contrast
comparable to available
black/white; beam penetra-
tion CRT’s employed off-
ered to 21 inches diagonal;
definitely merits further
study.— CPS, Inc., 722 East
Evelyn Avenue, Sunnyvale,
Calif. 94086

(M314) Counter: Full details
on 6220 Counter; makes high-
ly accurate direct reading
measurements of audio/low
frequency inputs; 2 MHz Fre-
frequency/Multiplier Counter
features unique phase lock/
multiplier technique which
makes possible high resolution
measurements without in-
crease in measuring time; res-
olves 0.001 Hz in 1 second;
offers high rejection of ran-
dom electrical noise; addi-
tional features merit further
study.— Systron Donner,
10 Systron Drive, Concord, Calif.
94518

(M317) Digit Line-Operated
DPM: Full details on DM-1000
Digit Line-Operated DPM;
measures 3” wide x 1.75” high
x 2.24” deep; line-operated
3-1/2 digit unit includes solid-
state readout, can make to 200
readings/sec, has two input
voltage ranges ±199.9
mV/±1.999V; input
impedance is 1000 MΩ with in-
put bias current of 1 nA;
additional features merit fur-
ther study/consideration.—
Datel Systems, Inc., 1020
Turnpike Street, Canton, Mass
02021

Circuits

(215) Multiplying D/A Con-
verters: Concise, factual in-
formation on DAC-M 2-
Quadrant Multiplying D/A Converters; features 150-nsec output settling time, dc-2 MHz bandwidth; spanning 8-/10-/12-bit resolutions, they exhibit accuracies of 0.01% fullscale, TCs of +0.002%/°C; employ uni-polar variable-reference input; which when multiplied with digital input produces analog output; worthy of closest consideration.—Datel Systems, Inc., 1020 Turnpike Street, Canton, Mass. 02021

(217) Motor Speed Control: Concise, factual information on new fractional horsepower motor speed control; for motors to 1/8 horsepower; has most features of larger controls; gives smooth speed control throughout its operational range; prevents “cogging” at slow speed; rugged unit measures 3-3/8” x 3-3/4” x 1-1/4”; weighs 7 oz.; molded construction, compact size, electrically isolated heatsink permits easy installation for wide variety of uses; additional features call for study.—Contronics, Inc., 2629 Johnstown Road, Columbus, Ohio 43219

Components (Electrical)

(179) Character Generators: Concise factual information on MMI Character Generators, highest character density per package/fewer packages on boards/lower system cost; to 128 characters in single package/any character organization to 9 x 9 for better display resolution; bipolar speed you can rely on/access times to 35 nsec; additional features merit further study.—Mono- lithic Memories, Inc., 1165 East Arques Avenue, Sunnyvale, Calif. 94086.

(180) Chip Resistor: Concise, factual information on Tantalum Nitride Chip Resistors and Networks. Standard 30 Mil square configuration; available in standard RETMA resistance values from 1 Ohm to 10 Megohms. Tantalum Nitride resistor technology also enables hybrid circuit designer to obtain considerable higher circuit density; worthy of investigation/study.—Semi-Films Technology Corporation, Box 188, West Hurley, N.Y. 12491.

(B216) Processing Kit: Concise, factual information on Instant Silicon-on-Sapphire Processing Kit; consists of set of photomasks, instructions, enough P-/N-type SOS wafers to fabricate (1) P-channel enhancement transistors, (2) N-channel depletion transistors, (3) N-channel enhancement transistors, (4) P-channel depletion transistors; additional features merit further study/investigation.—Inselek Company, 743 Alexander Road, Princeton, N.J. 08540

(A315P) Quad SOS/MOS Transistors: Concise, factual information on L01/L03 Quad SOS/MOS Transistors; consists of four P-channel enhancement-type MOS transistors fabricated on insulating sapphire substrate; absence of any significant junction capacitance causes remaining device capacitance to be essentially linear; gate protection against static charge provided in L01; definitely merits closest consideration.—Inselek, University Park Plaza, 743 Alexander Road, Princeton, N.J. 08540. (609) 452-2222

(A310P) Switches: Concise, factual information on Magic Dot Solid-State Lifetime Switches; features TOTAL ABSENCE OF MOVING PARTS for unparalleled reli-

gold plated contacts on epoxy circuit board/19SK-1 on left features double - shot keys, standard size and mounting dimensions/other

ability in modern applications; latest advances in microelectronics interface with mere touch of finger; pushing, pulling flipping eliminated, along with need for moving parts; familiar problems of arcing, contact resistance, bounce eliminated; additional features merit further study.—Magic Dot, Inc. 40 Washington Avenue South, Minneapolis, Minn. 55401

(A318P) Communications Switches: Full details on Model 64 Communications Switch; switches eliminate problems associated with manual transfer/arrange-
ment of modems between computers/communications network by performing transfer functions at push of button; allows operations personnel to rapidly transfer data circuits, modems, processor inputs by using local/remote pushbutton control; additional features merit further study.—Facit Odhner, Inc., 501 Winsor Drive, Secaucus, N.J.

(171) Alphameric Strip Printer: Full details on Facit Alphameric Strip Printer; features include input US ASCII standard/character by character, 15 CPS, 5x7 dot matrix presentation of characters, high character flexibility, single print hammer/fewer moving parts; definitely merits closest consideration.—Facit Odhner, Inc., 501 Winsor Drive, Secaucus, N.J.

(175) Printer/Reader: Full details on Addmaster Printer/Reader: Printer includes 12-column capacity/prints 3 lines (36 characters per second) 12 characters per column/numeric or limited alpha; reader features 120

CPS asynchrony speed/solid state — LED/reliability/stepping motor; both available in case/interfaced/ready to plug in; additional features merit study.—Addmaster,
### Software & Services

**Typeface:**

- Additional features merit further study/consideration. — Computer Maintenance Service, P.O. Box 23542, Pleasant Hill, Calif. 94523.

**Pattern Recognition and Statistical Analysis Software:**

- Full details on FACEL — Feature Analysis Comparison and Evaluation Library; User oriented, executive-controlled software system for pattern recognition/statistical testing applications; written in FORTRAN; readily convertible/adaptable to any computer system; individual programs/complete systems available; lease/purchase plans. — Recognition Systems, Inc., Van Nuys, California 91406.

- Model 103 Shutt-Off Utility: for details, contact Western Data Sciences Inc., 5045 North 12th Street, Phoenix, Ariz. 85014

**Timer:**

- Full details on CMS Model 103 Solid State Automatic Shut-Off Timer; quality, high reliability timer with many computer applications; lends itself well to teletype/other peripheral equipment; typical application is turn off teletype motor after no characters have been sent/received for pre-set time period from 30 seconds to 5 minutes, Timer automatically shuts off teletype; additional features merit further study/consideration. — Computer Maintenance Service, P.O. Box 23542, Pleasant Hill, Calif. 94523.

**Text-Editing Service:**

- Concise, factual information on Supercomp Text-Editing Service; covers all operations from original data entry at user terminal through preparation of final photocomposition at data center; available to subscribers of Beloit computer-time-sharing network; definitely merits closest consideration. — Beloit Computer Center; One St. Lawrence, Beloit, Wisc. 53511

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**Computing Reviews**

The Publications Committee of IEEE Computer Society and the Publication Board of ACM have agreed that Computing Reviews should expand its coverage to provide reviews of considerably more material (books, technical papers, symposia proceedings and the like) of prime interest to members of IEEE, particularly of its Computer Society. These will be critical evaluations as characteristic of Computing Reviews, and not abstracts. It is hoped this step will enhance the usefulness of Computing Reviews to a wider range of computer professionals. Much of the additional material will fall in the Computing Reviews category for Hardware, but the sections on Electrical and Electronic Engineering, on computer systems, real-time, telecommunications, and related categories will also grow.

This expansion of coverage will be achieved by a working level cooperation between the IEEE Computer Society and the Computing Reviews staff. Robert A. Short, Editor-In-Chief of the IEEE Computer Society, has issued a call for volunteer reviewers from the ranks of the IEEE Computer Society, asking them to accept assignments from Computing Reviews in their fields of interest. Members of the Computer Society are urged to indicate their availability by writing to Lee Revens, Executive Editor of Computing Reviews, at ACM Headquarters, 1133 Ave. of the Americas, New York, N.Y. 10036.

This extended coverage is regarded as sufficiently significant to IEEE Computer Society members that it has been agreed by the two societies to offer Computing Reviews to members of the Computer Society at the special price of $15, rather than the regular $25 price to non-ACM members. A complimentary copy of Computing Reviews will be mailed to those interested in subscribing at this special $15 rate. Please write to Harry Hayman, Box 639, Silver Spring, MD 20901.