

NEW PRODUCTS

MODEL ADFS-320 VHF BAND AUTOMATIC DIRECTION FINDER

Ocean Applied Research, San
Diego, CA 92121

Wide range versions of the Model ADFS-320 in ranges of 70-250, 25-250, and 100-500 MHz are now available. The compact, portable receiver contains a CRT display, field strength meter, speaker, manually programmed synthesizer, operating controls, and runs from either battery or ac power. Options include interchangeable automobile, aircraft, ship, or base type antenna mounts, factory preprogrammed frequencies, track-and-hold for CRT display, digital bearing readout, and a microprocessor based remote control system for operating distant sites over telephone lines or microwave links.

Circle No. 1



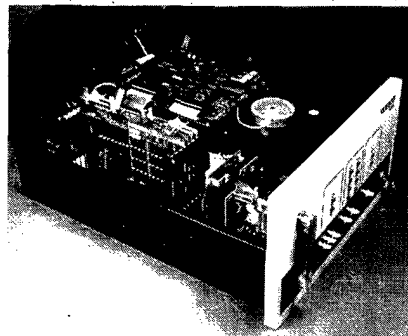
3DB H-PAD ON 211 BLOCK (PART NO. 20200401)

Plantronics/Kentrox, Portland,
OR 97229

Blocks including a 3 dB fixed loss balanced H-network are available with a nonpolar film capacitor which blocks

dc in the shunt branch. Capacitor values minimize distortion of dc signaling. The pads are used between digital class 4 and 5 offices for inter-office trunking and have 200 V protection.

Circle No. 2



MODEL XL2300 LSI-11/23 MICROCOMPUTER SYSTEM

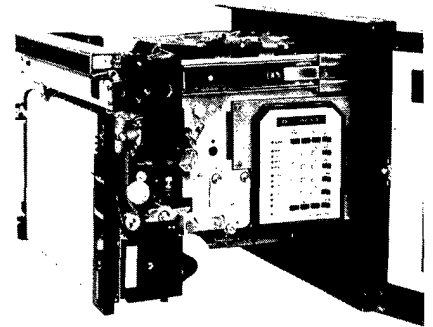
Xylogics, Inc., Burlington, MA
01803

Price: End-user list prices start
at \$22 500.

Delivery: 30-60 days.

This system integrates DEC's microprocessor, memory, and communications ports with Xylogics' Winchester disk and tape cartridge subsystems. It is packaged in a compact tabletop or rack-mounted cabinet that measures 10.5(H)×19(W)×25(D) in. and weighs 110 lb. DEC compatible software can be used without modification. The system also supports TAPS, WORD-11, and Unix among others. The principal advantage of the new system is the marriage of Winchester technology with economical, high-speed tape loading and backup to the LSI-11.

Circle No. 3

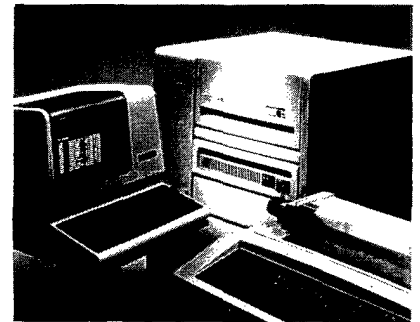


ALARM MICROPROCESSOR FOR SPEEDOMAX MULTIPOINT RECORDERS

Leeds & Northrup, North
Wales, PA 19454

The Alarm Processor consists of an interface with the measuring circuit of the recorder, a CPU for alarm processing, a data entry keyboard with digital display, and an alarm output relay rack. Up to 120 alarms can be programmed on a 30-point Speedomax Recorder. The unit is customer programmable to alarm or signal at up to four levels per point with four independent levels of alarm, each with its own set point and alarm action (high or low). Rate of change can also be alarmed.

Circle No. 4



PDP-11/24 MINICOMPUTER

Digital Equipment Corp.,
Maynard, MA 01754

Price: From \$11 000; packaged
systems from \$19 800 with
software; datasystems from
\$35 800 with software.

Delivery: Summer 1981.

The PDP-11/24 includes the extended PDP-11 instruction set, memory addressing extension, megabyte memory capacity, UNIBUS™ architecture, memory expansion and

high packaging density. In the central processor, a 5¼ in high chassis provides a maximum 768 kbyte memory; the 10½ in high chassis accepts a full megabyte of memory. It is considered a midrange minicomputer. Three packaged systems are available:

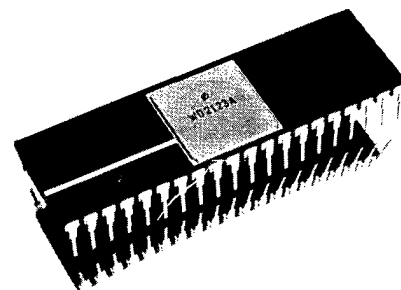
1) 128 kbytes, dual RX02 floppy disk drives and either a DECwriter IV or VT-100 video terminal.

2) 256 kbytes, dual RL02 10.4 Mbyte disks, and either a VT100 or DECwriter terminal.

3) 256 kbytes, dual 28 Mbyte RK07 disk drives, and a DECwriter III.

Datasystems using the PDP-11/24 are configured as follows.

voice, data, and video signals and can be used for surveillance, remote monitoring, security, and analog or digital voice and data. The capacity of the system is 60 Frequency Division Multiplex (FDM) voice or data channels, 24 T1 or 48 T1C Pulse Code Modulation (PCM) channels, or one composite video signal with audio over a single optical fiber. Typical link spans using 4 dB/km fiber are 4 km for analog FDM, 6 km for digital PCM(T1), and 5 km for analog video. The equipment is compatible with standard DSX1 and DSX1C cross-connect interfaces for digital transmission, standard 60 channel basic



DUAL ENHANCED UNIVERSAL COMMUNICATIONS ELEMENT (DEUCE)—WD2123

Western Digital Corp., Newport Beach, CA 92663

Price: \$15.60 (100) in plastic.
Delivery: Samples immediately.
Production: 90 days.

The WD2123 combines two independent full duplex asynchronous receiver/transmitter channels and two independent baud rate generators in one 40-pin DIP. Each channel includes independent receiver clock input, programmable serial interface, false bit line detection, line break generation and detection, transmit and receive capability, and full prioritized interrupt system controls. It performs serial to parallel and parallel to serial conversions and can inform the CPU of each channel's status, type, and condition of the transfer operation and transmission errors such as parity, overrun, or framing. The WD2123 replaces two 28-pin LSI's, one 18-pin LSI, and support memory chips. It has been designed to permit sophisticated data processor and peripheral equipment to "talk" simultaneously in any combination between CPU's, CRT's, printers, FAX machines, and digital PABX's from one socket. The DEUCE can be obtained in either plastic or ceramic and can be interfaced with Z80, 8080A, 8085, 6502, and the 6800.

Circle No. 7

LOW PROFILE FLATHEAD® PC BOARD POWER TRANSFORMER

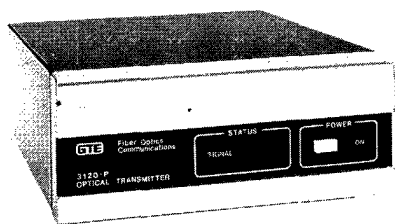
Signal Transformer Co., Inc., Inwood, NY 11696

Price: \$4.50 (100) OEM
Delivery: in stock.

New units in the Low Profile series line measure 0.65 in high and are rated at 2.5 VA with outputs from 5 to

Datasystem	346	348	522	528A	528E
Operating System CTS-300 CTS-500	•	•	•	•	•
Memory (Mbytes) 128 256 512	•	•	•	•	•
Dual Disks RL02 RK07	•	•	•	•	•
Terminal VT100 DECwriter III	•	•	•	•	•
Ext. Addr., COBOL					•

Circle No. 5



FIBRE OPTICS 3120 FAMILY—OPTICAL TRANSMISSION EQUIPMENT

GTE Fibre Optics Communication Division, Mountain View, CA 94043

Delivery: late 1981.

The GTE 3120 Optical Transmission Family can provide transmission for

supergroup interface for analog transmission, and RS-330 specifications for video transmission. The transmitter and receiver units are 3.5(H)×8.6(W)×12(D) and can be mounted side by side on a single shelf rack mounted or as a desk top model. Power consumption is less than 10 W/unit, either 110V ac or -24/-48 V dc. Continuity alarms are provided. Since it provides interference free transmission over a dielectric medium with reduced space and size requirements compared to copper systems it is expected to be suitable for use by: telephone companies; power utilities; railroads; federal, state, and local governments; and industrial and commercial firms.

Circle No. 6

230 V. These are the lowest height transformers Signal has offered.

Circle No. 8

**ARCHIVES III WORD
PROCESSOR/COMPUTER**

Archives, Inc., Davenport, IA 52722
Price: \$8500 (suggested list price).

The Archives III is a tested word processor/computer with a total storage capacity of 5.75 Mbytes contained in a "Tandon" double-sided disk drive and a Seagate 5 Mbyte 5¼ in Winchester disk drive.

Circle No. 9

**SECURE/DATA DATA SECURITY
SYSTEM BU 102**

COM/TECH Systems Inc.,
New York, NY 10018

Price: stand alone \$1400; plug-in card version \$1120; power supply \$350; card cage for rack mounting \$300.

The 102 series features automatic cipher synchronization, nonlinear coding, 200 million code settings, and clear/encrypt mode selection. The BU 102 is a compact design which is available in two versions; a stand-alone unit with a self contained power supply and a plug-in module for rack cage mounting. A 19 in card cage for 12 BU 102 modules and power supply modules for six BU modules are also available.

Circle No. 10

**MODEL M-937 HIGH
PERFORMANCE DTMF
RECEIVER**

Teltone Corp., Kirkland, WA 98033
Price: \$115 (10-99).
Delivery: in stock.

This receiver is designed for world-wide end to end signaling applications. It converts incoming DTMF signals to logic levels and can also count rotary dial pulses. It is designed to meet CEPT, CCITT, and USITA recommendations and operates from a single 12 V dc power supply. The M-937 is a small circuit card 4.5×3.3×0.7 in pin compatible with the industry standard and features adjustable input levels, flexible output format, control options, wide dynamic range (-45 dB), and low level detec-

tion (to -46 dBm) in a noisy environment.

Circle No. 11

**DM-2100 HIGH SPEED COAXIAL
DATA MODEM**

CATEL, Mountain View, CA 94043
Price: \$1895 in single quantities.
Delivery: 12 week ARO.

The new modem combines both RF and data component packages. Up to 30 high speed data channels can be placed in one standard 6 MHz TV channel assignment. The modem frequencies can be spaced 200 kHz apart in the 4.0-200 MHz range and features switch selectable rates from 2.4-28.8 kbits/s. It is designed for a standard EIA RS-232C/CCITT V24 data interface. It operates in internal, external clock or repeater timing modes; features digitally generated waveforms, RF and data diagnostics; and built-in remote loop and self-test generators. It occupies a 3½ in height in a standard 19 in rack. The modem is a joint venture with the Prentice Corporation.

Circle No. 12

**MICRO30 ORANGEBOX™
COMMUNICATIONS
PROCESSOR**

Micom Systems, Inc.,
Chatsworth, CA 91311

Price: \$1500 suggested list with
6 RS232C I/O interfaces.
Delivery: 30 days ARO.

This microcomputer system is designed strictly for data communications using asynchronous and synchronous protocols. It can be used to implement terminals, communication controllers, concentrators and front-end devices, using customer software. A Z80A microprocessor and associated SIO integrated circuits allow fast efficient I/O programming. It is packaged either as a standalone unit or as a standard 19 in rack mounting. Up to 18 communication interfaces may be accommodated. Optional integral modems for operation at 2400, 4800, or 9600 bits/s are available.

Circle No. 13

**COLORSCAN 10 COLOR
GRAPHICS TERMINAL**
Datamedia Corporation,

Pennsauken, NJ 08109
Price: \$3795 (single units);
OEM discounts available.
Delivery: 120 days.

The color graphics terminal features eight colors, 80/132 column, built-in line ruling set and a nonglare 12 in screen. The eight colors are red, blue, green, cyan, magenta, yellow, black, and white. The unit comes with a detachable typewriter style keyboard with separate numeric pad. Split screen, regional scrolling, and double high/wide characters are available.

Circle No. 14

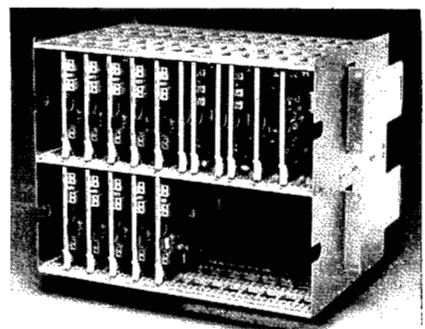
DATACRYPTOR II

Racal-Milgo, Inc., Miami,
FL 33166

Price: \$2350 for master site;
\$2100 for remotes.

This device is designed to prevent unauthorized access to computer information by enciphering and deciphering data at rates up to 9600 bits/s using the U.S. National Bureau of Standards Data Encryption Standard algorithm. The Datacryptor uses protocol transparent technology. Both master and working keys are used. Extensive diagnostics simplify key management.

Circle No. 15



**DROP AND REINSERT
TERMINAL DDI-1A**

Farinon Electric, San Carlos,
CA 94070

This digital channel bank is capable of dropping and/or inserting up to six voice or data channels in a DS-1 line. The through signals remain in a digital format and do not suffer degradation. In case of failure, the DDI is automatically bypassed. The DDI adds data capability to lines equipped with D3 or

call for papers

Key issues of this symposium are:

- NEW SERVICES AND CUSTOMER ACCESS REQUIREMENTS
- APPLICATION OF NEW TECHNOLOGY
- STRATEGIES FOR TRANSITION TO FUTURE LOCAL NETWORKS
- OPERATIONAL SUPPORT SYSTEM STRATEGIES
- MANAGEMENT OF SUBSCRIBER PLANT

Fifteen copies of proposed paper summaries should be submitted by October 1, 1981.

Final camera-ready text is required by April 1, 1982.

Summaries should be sent to:
Mr. Richard E. Mosher
Technical Chairman ISSLS 82
A. T. & T. International
P.O. Box 7000
Rm. 3A - 49
Basking Ridge, N.J. 07920
U.S.A.

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- Kivi (The Netherlands)

issls 82

THE INTERNATIONAL SYMPOSIUM ON
SUBSCRIBER LOOPS AND SERVICES
Sept. 20-24, 1982
TORONTO, CANADA

Circle No. 33

D4 channel banks. Asynchronous data can be transmitted to 19.2 kbits/s, synchronous data to 56 kbits/s. The use of this equipment removes the need for back to back multiplexers and voice banks. The equipment can be used by business and industrial communicators and independent telephone companies.

Circle No. 16



**MN6401 LSI VOICE
SYNTHESIZER CHIP**
Panasonic, Secaucus,
NJ 07094

Delivery: last quarter of 1981.

A new voice synthesizer chip using the Partial Auto Correlation (PARCOR) technique originated by Nippon Telephone and Telegraph Corporation can speak in either male or female voices or a combination of voice and sound. The new chip is equivalent to three chips used previously and can synthesize up to 63 words in about 20 s from a built-in 32 kbit ROM. It operates from a single 5 V dc source, with a maximum consumption of 0.1 W (20 mA), audio output of 1.0 V peak-to-peak maximum, bit rate of 1.2-5.4 kbits/s, sampling frequency of 10 kHz and a fundamental frequency of 200 kHz. It is packaged in a 28 pin DIL plastic case. External ROM can be used to supplement the built-in ROM.

Circle No. 17