

Communications

6-GHz amplifier pumps power into satellite uplink

Hughes Electron Dynamics, 3100 W. Lomita Blvd., Torrance, CA 90509, (213) 534-2121.

A high-power amplifier subsystem, Model 9740H02, performs redundantly or in a power-combining role in satellite uplink service. The system, using

a ruggedized metal-ceramic travelling-wave tube (TWT), provides 330-W output in its redundancy mode and 650 W when used as a power combiner. Minimum bandwidth is 500 MHz at 6 GHz. As a standby unit, the amplifier can be in a "hot" mode with the unit fully operational into a dummy load. In a "warm" or beam-off mode, the heater is operated at lower power to increase TWT life. Integral forced-air cooling is provided.

CIRCLE NO. 366

High-speed modem sends data over twisted pairs



Avanti Communications, Aquidneck Industrial Park, Newport, RI 02840, (401) 849-1660, \$2750.

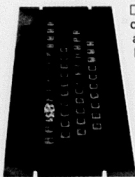
A high-speed modem for computer-to-computer bulk data transfer, the Avanti 2300, operates over unloaded twisted pairs or coaxial cables at distances to 7000 ft. Data rate is 1.544 Mbits/s or 3.088 Mbits/s. Operation is full-duplex, four-wire, point-to-point, with internal or external timing. Error rates are better than 10^{-9} . The unit includes on-line self-test capabilities. An operator is alerted to a failure anywhere along a data link via a front-panel alarm light. A scrambler makes transmission insensitive to data format. Digital interface is CCITT V.35 or, optionally, EIA RS422. Stand-alone or rack-mount versions are available with a redundant power supply.

CIRCLE NO. 367



Features

- ☐ Tactile feel ☐ Custom design, unlimited colors optional
- ☐ Embossed keys on velvet surface ☐ Positive mechanical contacts ☐ LED indicators in keys for specific key functions, optional
- ☐ All versions sealed from front, environmental back sealing optional ☐ Enclosure optional ☐ Mounting on .093" (236 cm) PCB for rigidity.



Less than .125" (.317 cm) thick

- ☐ Contact life in excess of 5,000,000 cycles ☐ ASC II or EBCDIC encoding available ☐ Parallel output standard
- ☐ Serial output optional ☐ 3 or 4 modes of operation available on intelligent models ☐ "ALL CAP" key electronically latched on intelligent models ☐ CMOS optional ☐ Direct soldering, terminals, PCB tab, flex tail, or Connector interface available. Standard model has a 34 pin header.

Major Applications

1. Process Control
Machine shop environments, paper mills, textile industries, Oil and associated drilling rigs.
2. Home Computers
Low cost applications where fast data entry is not required.
3. Any application where severe environmental conditions exist.

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Triple modem gives choice to remote terminal users



Racal-Vadic, 222 Caspian Dr., Sunnyvale, CA 94086, (408) 744-0810. From \$900; 8 to 9 wks.

VA3450 series, triple modems for remote terminal use, combine a Bell-type 212A and type 103 modem with a VA3400 modem in a compact, stand-alone package. A single modem satisfies all conventional originate/answer applications for switched-network, full-duplex data transmission from 0 to 1200 bits/s. The series includes six models, all of which are registered for direct connection under Part 68. An originate or answer version is offered for leased-line use. A called modem is automatically identified. Diagnostics include idle test, analog loopback and busy-out, digital loopback and self-test.

CIRCLE NO. 368