

MICROWAVE BYPASS SYSTEMS

ETHERWAVE TRANSCEIVER[®]

*Now available
with SNMP option!*

The Etherwave Transceiver is the interface between an Ethernet LAN and a wideband microwave radio, providing full 10Mbps Ethernet connectivity between facilities miles apart. The Etherwave acts as a standard 802.3 transceiver and supplies a 15-pin AUI connection to the network and two BNC connections to

and receive BNC ports on the LAN radio.

Continuity and operational status are confirmed via four front panel LEDs providing visual indications of transmit and receive data, collision detect and power. For added convenience and on-going monitoring, the Etherwave may also be ordered with an SNMP option



the microwave radio. Together with the microwave radio, the Etherwave supports links of up to 15 miles in a single point-to-point transmission. Greater distances may be achieved through the use of LAN and/or microwave repeaters.

The Etherwave Transceiver connects to the network via any 802.3 compatible bridge, repeater or router, for Ethernet retiming and to support required internetworking functionality (e.g., packet filtering, protocol routing, etc.). Two 75ohm coaxial cables then connect the input and output of the Etherwave to transmit

(MIB-II). The SNMP option enables the Etherwave and LAN radio connection to be remotely managed through the Etherwave's universally compliant SNMP agent.

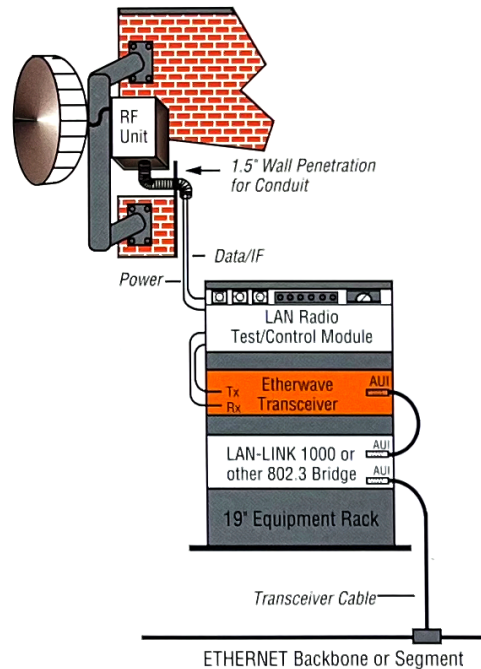
Ethernet connections through the Etherwave and LAN radio are configured for reliability (typically up to 99.999%), far in excess of the Bell standard. The Etherwave, microwave radio and LAN retiming devices comprise a total system providing an alternative or complement to leased T-carrier lines and fiber optic cabling.

SPECIFICATIONS

System:	Allowable round trip propagation delay: 46.4 microseconds Link separation with standard configuration: up to 5 miles (see below diagram for standard configuration) Link separation with duplex configuration: up to 15 miles Bit error rate: Better than 1 in 10 ⁹
Radio Interface:	Transmitter — Baseband output to transmitter — 1 volt pk to pk into 75ohms Signal Encoding — Baseband Manchester Receiver — Baseband input from receiver — 1 volt pk to pk into 75 ohms Signal Encoding — Baseband Manchester Signaling Bandwidth — 20MHz
Device Interface:	Conforms to Ethernet 2.0/802.3 (Ref. "The Ethernet", Digital Intel Xerox, Version 2.0)
Power Requirements:	+12volts to +15volts ± 5% @ 0.5 amps. (Power supplied through the device connector)
Front Panel:	Four Status Indicators: Power — Receive — Transmit — Collision
Rear Panel:	Output to transmitter — BNC female Input from receiver — BNC female Network device connect — DB 15 (male) AUI connection with screw lock posts (slide locks available on request)
Mechanicals:	Height: 1.75" Mount: 19" Standard E.I.A. rack compatible

**DIAGRAM OF
TERMINAL END**
10Mbps Ethernet
over wideband microwave

**Example of standard
configuration for
distances under 4.3 miles**



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