

Intelligent E1 CSU/DSU Multiplexers

- ✓ *Full & Fractional E1 support*
- ✓ *DTE drop/insert capability*
- ✓ *Front panel status & control for quick & easy operation*
- ✓ *Endpoint to multiple endpoint fractional E1 performance monitoring*
- ✓ *Loopback & test pattern capabilities*
- ✓ *In-band diagnostics, messaging, and alarming capability*
- ✓ *Embedded SNMP agent for greater manageability*



The ACCULINK 317x Series is a family of intelligent, full-featured E1 CSU/DSU multiplexer products providing an interface between an E1 digital network and a variety of customer-premise equipment, such as routers, front-end processors, video servers and digital PBXs.

The 317x E1 DSU/CSU series of products consists of a 2-port 3172 DSU/CSU and a 4-port 3174 DSU/CSU. Each unit acts as an interface between an E1 digital network (as specified in ITU-T standards G.703 and G.704) and the customer premises equipment, converting signals received from the DTE (Data Terminal Equipment) to signals that can be transmitted over E1 lines.

The 317x supports point-to-point and point-to-multiple point network applications, including Local Area Network (LAN)/Wide Area Network (WAN) interconnection, shared access to network-based services, and fractional E1 network applications. The 317x provides the capability to support fast, efficient, distributed applications, including remote file sharing, tele-collaboration, and “white boarding” in a most cost-effective manner.

ACCULINK 317x MANAGEMENT

Comprehensive, integrated management features means that the 317x CSU/DSU lets you easily configure, troubleshoot, and monitor your network using:

- Integrated Front Panel keypad and LCD
- ASCII Terminal Interface
- PC-based Front Panel Emulation Software
- Telnet and SNMP

Each 317x includes an integrated front panel display and keypad with an easy-to-use, easy-to-understand menu scheme that lets you configure, test, and monitor local and remote devices. The optional 317x Front Panel Emulation software enables you to configure, test, and monitor the 317x right from a PC. Enhanced functionality, multiple modes of operation, and expanded help menus make the Front Panel Emulation software straightforward to use.

Your Network Management System (NMS) can optionally “link” to the 317x, exchanging SNMP MIB traps, alarms, configurations, etc., via a breadth of schemes, including:

- PPP/SLIP router connection
- E1 in-band
- External modem
- 317x-to-317x daisy chaining

Technical Specifications

Dimensions

- Height: 3.90 inches (10.0 cm)
- Width: 7.63 inches (19.4 cm)
- Depth: 12.13 inches (30.8 cm)

Weight

- 3.6 pounds (1.7 kg)

Power

- 100 - 220 VAC Supply
- 16.0 watts, 55.0 BTU/hr @ 115 VAC
- Optional DC Inputs:
 - +24 VDC: +20 to +32 VDC, 0.50A
 - -48 VDC: -38 to -60 VDC, 0.25A
 - -48 VDC Redundant: -38 to -60 VDC, 0.25A
 - 12.0 watts, 41 BTU / hour at +24 and -48 VDC

Interfaces

- DTE DROP & INSERT INTERFACE:
 - Interface: DB15; 120 ohm twisted pair (balanced)
 - Framing Format: CRC-4, non-CRC-4
 - Coding Format: AMLI, HDB3
- NETWORK E1 INTERFACE:
 - Interface: BNC pair; 75-ohm coaxial cables (unbalanced) or RJ48C for 120-ohm twisted pair (balanced)
 - Framing Format: CRC-4, non-CRC-4
 - Coding Format: HDB3
 - Signal Recovery Capability: 43 dB of cable attenuation at 1024 kHz
- CLOCKING SOURCES:
 - Internal: 2.048 MHz (50 PPM accuracy)
 - External: Network E1, G.703, Port One
 - Clock-in: RS422 or RS423 at 2.048 MHz (50 PPM accuracy) or 8 KHz
- OTHER PORTS:
 - COM Port: RJ45
 - AUX Port: RJ45

Standards Support

- ITU-T G.703, G.704, G.732

Protocol Support

- SNMP
- SLIP
- PPP

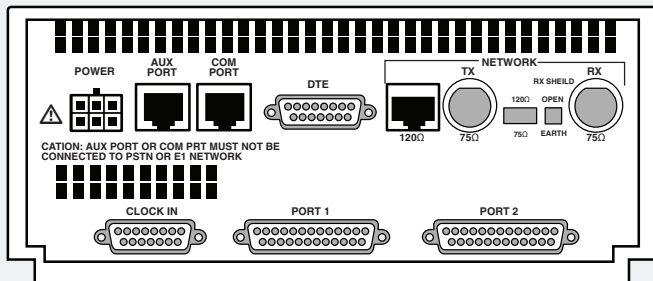
Management

- DISPLAY:
 - 2x16 line LCD with four (4) self-diagnostic LEDs
- PERFORMANCE MONITOR:
 - Data port-oriented in-band diagnostics
 - Information stored for last 24 hours in 15-minute increments
- TESTS - LOCAL:
 - Payload Loopback (PLB)
 - Line Loopback (LLB)
 - DTE Loopback (DLB)
 - Repeater Loopback (RLB)
 - Data Channel Loopback (DCLB)
 - Data Terminal Loopback (DTLB)
 - Lamp (tests the front panel LEDs)
- TESTS - REMOTE:
 - Data channel loopback up (DCLBUP) activation sequence to initiate a V.54 Loop 2
 - Data channel loopback down (DCLBDN) activation sequence to terminate a V.54 Loop 2
- TEST PATTERNS:
 - 1-in-8
 - 511 (selectable data ports)
 - QRSS - Quasi- Random Signal Source (selectable DS0s)

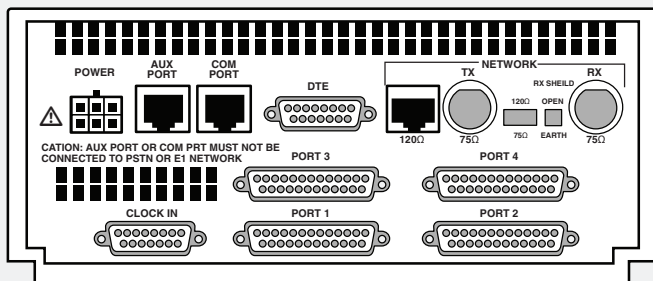
Operating Requirements

- Operating: 32°F to 122°F (0°C to 50°C)
- Storage: 4°F to 158°F (20°C to 70°C)
- Humidity: 5% - 95% (noncondensing)

BACK - 3172



BACK - 3174



Ordering Information

3172-A1-310	E1 CSU/DSU; 2-Data Ports, 1-G.703 D&I Port; 110 VAC
3172-A1-410	E1 CSU/DSU; 2-Data Ports, 1-G.703 D&I Port; 90-250VAC
3172-A1-510	E1 CSU/DSU; 2-Data Ports, 1-G.703 D&I Port; 24/48VDC
3174-A1-410	E1 CSU/DSU; 4-Data Ports, 1-G.703 D&I Port; 90-250VAC

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