QUAD E1

ATLAS 800 Series Module

Product Features

- Four E1 interfaces
- Built-in CSUs
- 2.048 Mbps line rate
- Maximum distance 3,200 m
- G.703/G.704 compliant
- G.704 framing formats (FAS, TS16 MF, CRC-4)
- HDB3 and AMI line coding
- Local and remote loopback support
- Generates and detects QRSS test pattern
- Lightning protection
- Occupies a single slot in an ATLAS 800 Series chassis
- Industry-leading five-year North American warranty

The ADTRAN® Quad E1 Module combines with other ATLAS™ components to implement a variety of WAN access solutions, including serving as an E1 Bandwidth Manager and Digital Access Cross-Connect System (DACS). The module provides four E1 ports, each of which can be separately configured.

ATLAS has the ability to support time slot interchange and to digitally cross-connect, or DACS, up to 24 E1 circuits. Any TS0 of any E1 can be groomed and mapped to any TS0 of any other E1 in the system.

With the E1 module, ATLAS can act as a concentrator of 64/128 kbps leased lines. The ATLAS Quad E1 module will work in conjunction with the Octal BRI module and allow users to map BRI ports to E1 DS0s in a dedicated, leased line application.
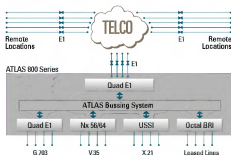
The Quad E1 module can also be used with the ATLAS to support public and private

Frame Relay solutions. The ATLAS 810plus and ATLAS 890 includes a 10Base-T Ethernet port and IP Router to encapsulate data into Frame Relay packets. External routers can also be connected to the ATLAS through one of the many optional serial interfaces including: V.35, EIA-232, EIA-530, EIA-449, X.21 and V.36.

Configuration of the Quad E1 Module can be accomplished through Telnet or VT100 emulation. SNMP management is supported for alarm and event reporting.

Extensive performance monitoring is standard with the Quad E1 module to detect and record loss of signal, loss of framing, CRC4, AIS, REM, and REMF.

When testing the E1 circuit, the system allows the user to select loopback commands and test patterns, including All 1s and All 0s as well as QRSS pattern.

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Product Specifications

Physical Interface
- 62 pin D-sub connector
- Adapter cable for 120 ohm balanced termination with male DB-15

Line Rate
- 2.048 Mbps

Framing
- G.704 (FAS, TS16 MF, CRC-4)

Line Coding
- AMI, HDB3

Line Length
- 3,290 m at 75 ohms
- 1,963 m at 120 ohms

Switch Compatibility
- ETSI/DSSI

Diagnostics
- **Local Loopback:** Line

Test Patterns
- QRSS, All 1s, All 0s

Alarms
- LOS, LOF, LOMF, CRC4, AIS, REM, REMF

Performance
- Per G.821, RFC 1406

Signal Monitoring
- AB signaling bits for all TSQs

Agency Approvals
- FCC Part 15
- Class A
- UL 1950
- IEC 950
- Canadian UL (CUL)
- CISPR 22
- Class A

Environment
- **Operating Temperature:** 0° to 45°C
- **Storage Temperature:** -20° to 70°C
- **Relative Humidity:** Up to 95%, non-condensing

Power
- 5 Watts at 48 vDC

Product Includes
- Plug-in Module
- Adapter Cable
- User Manual

Ordering Information

Equipment	Part #
Quad E1 Module	
w/DB-15 adapter cable	1200264L1
Quad E1 Module	
w/DB-15 adapter cable and BNC 75 Ω converter	4200264L1

DB-15 cable