Model 2345

T3 Fiber Optic Modem

The EdgeAccess® Model 2345 is an SNMP managed multi-featured fiber optic modem that optically extends standard T3/DS3 (44.736Mbps) over single mode or multimode fiber optic cable. It is designed to enable Service Providers, Carriers, Government, Military and Corporate Enterprise to expand the capabilities of their existing data communications infrastructure.

The 2345 transports any B3ZS coded, framed data stream and provides a transparent link extension when transporting C-bit Parity and M13 framed signals. It is available as a standalone and as a rackmount card with modular, hot-swappable, and interchangeable Optical Line Interface Modules (OLIM). The rackmounted card is part of the Universal Chassis System (UCS).

SNMP support is available for both the rackmount and the standalone versions with end-to-end monitoring and configuration facilitated via the Side-band Management Channel. The network manager can gather statistics and link information from the remote end. Software upgrades can be downloaded remotely.

2345 Standalone Model

To reduce critical circuit downtime, fiber path and full hardware modem redundancy options are available. In each option, failure in the primary causes an automatic switchover to the secondary fiber link.

The 2345 is ideal for extending T3 from the telco demarcation point and WAN, as well as extending interconnection between T3 multiplexers. For applications that require multiple modems, refer to the Universal Chassis System (UCS) data sheet.

CANOGA PERKINS

Fiber Optic Xtension Leader

FEATURES

- ● Optically Extends T3/DS3 Up To 100km
- ● Single Mode and Multimode Fiber
- ● Performance Monitoring Per ITU-G.826 and RFC2496
- ● Supports B3ZS Line Coding and AMI Pulse Coding
- ● Supports M13 and C-bit Parity Framing Formats
- ● Transparent; Passes FDL and FEAC Overhead Bits
- ● VT100, SLIP, PPP, and SNMP Management Support
- ● End-to-End Side-band Management
- ● Modular With Hot-swappable and Field Replaceable OLIMs
- ● Features Optical and Full Modem Redundancy Options
- ● Local and Remote Loopback Diagnostics
- ● Input and Output Alarm Relays
- ● NEBS Level 3 Tested and Certified

EDGEACCESS®

Model 2345

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Specifications

- **DIAGNOSTIC LEDs**
  Status (STA), Configuration (CFG), Composite Loss of Sync (CLS), Test/Loopback (TST), Loss Of Sync (LOS), Local Pattern String (AIS), Optical Signal Quality Level (SQL)

- **SWITCHES**
  Recessed Reset (Standalone and Rackmount) Loopback and Console (Standalone)

- **ALARMS**
  Dry Contact Output and Alarm Input (Both) Alarm Input (Standalone)

- **REDUNDANCY**
  Fiber Path or Full Modem

- **PHYSICAL**
  Dimensions
  Standalone
  1.7"H x 8.5"W x 11.5"D
  (44 x 215 x 292mm)
  Rackmount
  1.0"H x 7.9"W x 10.4"D
  (25 x 201 x 264mm)
  Weight
  Standalone 3.2 lbs (1.45kg)
  Rackmount 1.2 lbs (0.54kg)

- **POWER**
  Standalone
  90 to 275VAC, 47 to 63Hz Autoranging, 10W Max.
  38 to 72VDC, 9.1W Max.
  Rackmount
  10W Max. (See UCS 1000 Specifications)

- **OPERATING ENVIRONMENT**
  Temperature 0˚ to 50˚C
  Humidity Up to 95% (Noncondensing)

- **ELECTRICAL CONNECTORS AND IMPEDANCE**
  BNC 75 ohm Unbalanced

- **OPTICAL INTERFACE CONNECTORS**
  ST 850nm LED
  ST, SC, FC/PC 1310nm/1550nm Laser

- **MANAGEMENT**
  Local Terminal (VT100)
  SNMP Through Dial-in for Standalone
  SNMP Through UCS for Rackmount

2345 With Single Path OLIM   2345 With Dual Path OLIM

- **PERFORMANCE**
  Composite Error Rate $\leq 10^{-10}$

- **TEST FUNCTIONS**
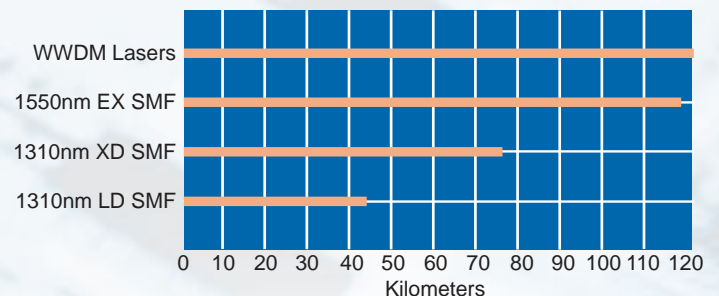 Local and Remote Loopback, Power-on Self-test

- **DATA RATE**
  44.736Mbps

- **LINE CODING**
  B3ZS, AMI Pulse and Unframed Mode Compliant With ANSI T1.102-1993, Telcordia GR-499-CORE and GR-253-CORE, ITU-T G.703

- **DISTANCE GUIDE**

  WWDM Lasers
  1550nm EX SMF
  1310nm XD SMF
  1310nm LD SMF

  0 10 20 30 40 50 60 70 80 90 100 110 120
  Kilometers

  LD = Long Distance   **EX** = Extended Distance
  XD = Extended Distance

  Notes: These are typical distances which can be achieved depending on the quality of the fiber cable plant. Also available are WWDM specific wavelengths. Please call Canoga Perkins for more details.

- **REGULATORY COMPLIANCE**
  UL 60950/CSA C22.2 No. 60950
  IEC 60950, IEC 60825-2
  FCC Part 15 Class A
  EN 300 386-2, AS/NZS 3548
  EN 61000-3-2
  EN 61000-3-3
  NEBS Level 3 Tested and Certified
  CE

MADE IN THE
USA
ISO 9001 Registered

CANOGA PERKINS

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