



# MX2820

## High Density M13 Multiplexer

### Product Features

- Affordable DS3 bandwidth consolidation
- Provides up to 9 redundant M13s in 2 RU of space
- Built-in 1:1 DS3 and DS1 redundancy
- System Controller Unit for centralized management
- Single IP address per shelf
- Capable of backhauling multiple service types (T1/E1)
- TL1, SNMP, and Telnet management
- Local and network timing
- Uses local powered -48 VDC
- Allows for up to 63 M13s to be mounted in a 7-foot bay
- 19-inch or 23-inch versions available
- Industry-leading 10-year warranty

**The ADTRAN™ MX2820 High-Density M13 Multiplexer offers bandwidth consolidation at a low price in a dense rackmount chassis.**

The MX2820 gives customers the ability to easily install M13s on an as needed basis by simply inserting more MUX cards.

In areas where multiple M13s are needed, the MX2820 frees up valuable rack space with a high-density chassis. The MX2820 houses up to 18 multiplexer cards to provide 9 redundant M13 multiplexers in 2 rack units of space. Up to 7 redundant M13 multiplexers can be based in a 19-inch chassis. In addition, the MX2820 can provide up to 63 M13s in a 7-foot bay.

The MX2820 MUX cards are capable of combining independent T1s, E1s, or T1s and E1s on the same DS3. Each pair of MUX cards provides built-in 1:1 redundancy on the DS1 and DS3 signals. Advanced diagnostics include CSU loopbacks, NIU loopbacks, C-bit loopbacks, and built-in BERT (Bit Error Rate Testing) capabilities.

As with all ADTRAN products, the MX2820 offers comprehensive management options. It features a VT100 terminal interface for local configuration. To support SNMP and Telnet management, the MX2820 has an integrated 10/100BaseT port. TL1 alarming and editing can be accessed via the 10/100BaseT port, or the X.25 connection.



# MX2820

## High Density M13 Multiplexer

### ADTRAN, Inc.

901 Explorer Boulevard  
Huntsville, AL 35806

P.O. Box 14000  
Huntsville, AL 35814-4000

256 963 8000 voice  
256 963 8030 fax  
877 457 5007 fax back

### General Information

800 9ADTRAN  
info@adtran.com  
www.adtran.com

### Pre-Sales

### Technical Support

888 5ADTRAN  
support@adtran.com  
www.adtran.com/support

### Where to Buy

800 827 0807  
www.adtran.com/where2buy

### Post-Sales

### Technical Support

800 726 8663  
support@adtran.com  
www.adtran.com/support

### Regional Offices

Dallas, TX  
972 830 9070  
Denver, CO  
303 471 9150  
Irvine, CA  
949 260 3500  
Kansas City, KS  
800 471 8649  
Newark, NJ  
800 471 8656  
Ontario, Canada  
416 290 0585  
Quebec, Canada  
877 923 8726  
San Antonio, TX  
888 223 7671

### International Inquiries

256 963 8000 voice  
256 963 6300 fax  
international@adtran.com  
www.adtran.com/international

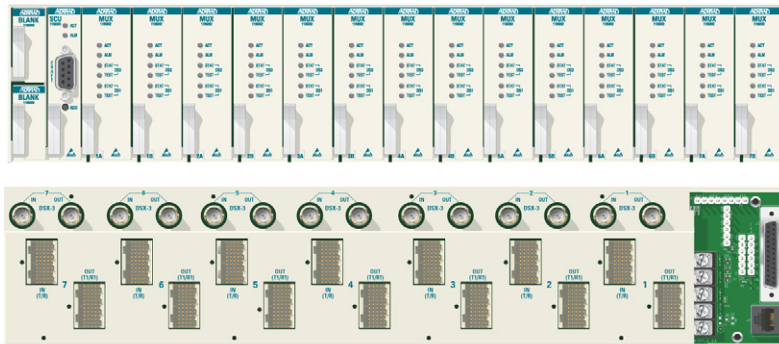


I.S. EN ISO 9001  
ADTRAN is an  
ISO 9001:2000 registered company.



TL 9000  
ADTRAN is a  
TL 9000 registered company.

Printed in the USA  
6118600XL1-8A February 2003  
©2003 ADTRAN, Inc. All rights reserved.



## Product Specifications

### Front Panel Features

#### SCU

- **PWR:** Power
- **ACT:** Active or standby
- **ALM:** Alarm
- **ACO Button:** Alarm cutoff

#### MUX

- **ACT:** Active or standby
- **ALM:** Alarm
- **DS3:** DS3 status indicator and DS3 test indicator
- **DS1:** DS1 status indicator and DS1 test indicator

### Mechanical

- **Dimensions:** 3.5 in. H X 17 in. W X 12 in. D (19" chassis)  
3.5 in. H X 21 in. W X 12 in. D (23" chassis)
- **Weight:** 5 pounds (without modules)

### Interfaces

- DS3 Level signals with standard 75 ohm BNC connectors
- DSX-1 Level signals with standard 60-pin Metral® connectors

### Clocking

- Network
- Local

### Alarms

- External alarm inputs for Critical, Major, and Minor alarms
- Normally open and normally closed pinout
- Front panel alarm cutoff switch (ACO)

### Electrical

- **Power Requirements:** -48 VDC, 15.5 W per redundant M13

### Regulatory Standards

- NEBS Level 3
- UL and CUL

### Management

- **VT100 Terminal Interface:** DB-9 interface
- **SNMP/Telnet:** Integrated 10/100BaseT Ethernet
- **TL1:** Alarming, via Ethernet or X.25 connection

### Environmental

- **Operating:** -40°C to +50°C
- **Storage:** -40°C to +85°C
- **Relative Humidity:** Per GR-63

## Ordering Information

Equipment	Part #
MX2820 19" Chassis	1186001L1
MX2820 23" Chassis	1186001L2
MX2820 MUX Card	1186002L1
MX2820 SCU	1186003L1
1U Heat Baffle	1180002L1
DS1 Connector to AMP Adapter Cable (3 ft.)	1186020L1
DS1 Connector to Stub Cable (25 ft.)	1186025L1
DS1 Connector to Stub Cable (50 ft.)	1186050L1
DS1 Connector to Stub Cable (100 ft.)	1186100L1

Specifications are subject to change without notice. ADTRAN and MX2820 are trademarks of ADTRAN, Inc. All other registered trademarks and trademarks mentioned in this publication are the property of their respective owners.