



OC-3 • Ethernet • OC-12 • STS-1 • DS3 • DS1 • OC-3 • Ethernet • OC-12 • STS-1 • DS3 • D

Integrated High Density Optical Multiplexing Systems



Total Access
OPTI-MX



High Density

Flexible Fiber Delivering DS3s, DS1s, STS-1s, OC-3s and Ethernet

ADTRAN's Total Access OPTI-MX™ is an innovative and timely solution for improving service provider profitability and high-speed service levels. A Carrier-Class OC-3/OC-12 SONET multiplexer for flexible fiber delivery including Ethernet over SONET, the Total Access OPTI-MX sets a new standard for price, performance and size. Feature set, small footprint, diverse deployment options, and low cost make the OPTI-MX a powerful alternative to existing product architectures.

High Density

The Total Access OPTI-MX offers OC-12, OC-3, STS-1, DS3, Ethernet, and DS1 interface options in just 2U of rack space. Access to 84 DS1 interfaces is supported in a single system, integrating M13 functionality while conserving valuable space in Central Office, Remote Terminal, and Customer Premises locations.

Fully Utilize SONET Facilities

Subscriber demand for DS3 and DS1 services continues to increase. With the limited electrical range of DS3 and the availability of SONET networks, service

providers have utilized traditional, expensive multiplexers to meet this demand. The Total Access OPTI-MX establishes a lower cost standard for

the industry while maintaining the standards and procedures for existing SONET networks.



Total Access OPTI-MX



Cost

Modular "Grow as you go" architecture, optimizes cost savings

Space

Only 2U high, mounts in standard 19 in. or 23 in. rack

Reliability

1+1 Optical and 1:1 electrical protection

Management

Single IP address for management over DCC or Ethernet connectivity

Long Reach

The Total Access OPTI-MX can exceed a range of 40 km using two single mode fibers and 1310/1550nm wavelength, long-reach optics. Its fully integrated design provides the management and redundancy features expected of Carrier-Class broadband multiplexers. ADTRAN provides the ability to utilize all of the bandwidth in an OC-3 or OC-12 for customer services.

OPTI-MX

Fully Protected

Use Anywhere

Engineered to integrate easily into existing networks, the Total Access OPTI-MX is interoperable with GR-253 compliant SONET multiplexers and supports management functions and alarms over the DCC for manageability within the SONET framework. TL1, SNMP, and ADTRAN's traditional craft port menu access are all supported within a single system. The optional redundancy feature supports 1+1 optical and 1:1 electrical protection on the network and tributary interfaces. The OPTI-MX can be used in both rack and wallmount configurations with powering options of 24 VDC or -48 VDC.

Full Support for Telcordia™ OS

The Total Access OPTI-MX is fully OSMINE compliant. TL1 and a full suite of interface options are provided for flexible OS integration.

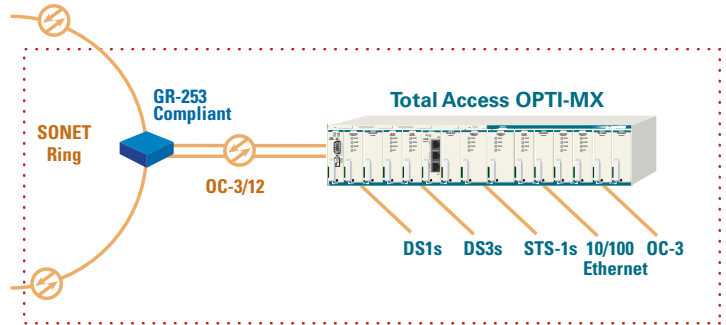
Cost Savings

ADTRAN's Total Access OPTI-MX addresses applications for SONET-based fiber multiplexers with a modular solution optimized for cost, size, and performance. Traditional solutions are expensive, large and often strand capacity. With the OPTI-MX, capital savings are immediate since customers buy only the capacity needed. Its fully integrated, NEBS-compliant design simplifies deployment and increases reliability.

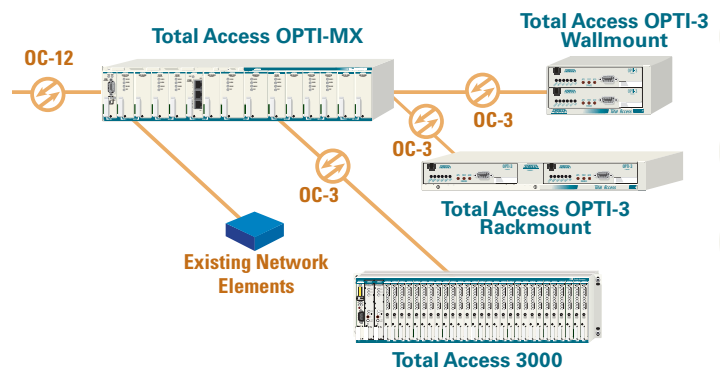


ADTRAN products are RUS accepted.

Point-to-Point Optical Delivery



OC-3 Tributary Applications



Total Access OPTI-3

Total Access OPTI-3™, ADTRAN's first standalone fiber multiplexer, is designed to deliver three DS3s over an OC-3 fiber connection. The OC-3 fiber connection is compatible with SONET solutions from most major optical multiplexer providers. Only 1U high, it is easily integrated into existing fiber architectures or fiber-based point-to-point applications.

OPTI-3

ADTRAN has the formula for business success.

$$\text{(customer satisfaction)}^{n^{\text{th}}} \times \int_{\text{today}}^{\text{tomorrow}} (\text{technology} + \text{value}) dt = \text{business success}$$

ADTRAN's OC-3/OC-12 multiplexing systems are optimized for high-density applications with full protection and Ethernet connectivity.

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For more information about how ADTRAN can help you incorporate cost-saving solutions into your network, visit www.adtran.com or call 888 ADTRAN9 today.