

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 multiplexing provides cost-effective DS3 service off SONET rings.

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The Network Access Company

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T11BR0404OPTI3

# Compact Cost-effective Optical Multiplexing



Space-saving Optical Delivery  
OPTI-3



# Cost-effective

## The Challenge of Delivering DS3s

Service providers are often faced with challenges posed by the limited electrical range of DS3 and the cost of converting optical to electrical interfaces through expensive multiplexers. The growing demand for DS3 deployment and limited space availability in central offices and remote terminals presents an additional challenge. The ADTRAN® OPTI-3™



ADTRAN's OPTI-3 Wallmount

- **Flexibility**  
Mounting flexibility with a 3.5-inch wallmount chassis and 1U high rackmount chassis
- **Space**  
Wallmount: 3.5 in. H x 6 in. W x 12 in. D  
Rackmount: 1.75 in. H x 13.5 in. W x 12 in. D
- **+24 VDC or -48VDC with Redundancy**
- **Optical Extension**
- **GR-253 SONET Compatibility**
- **DCC Interoperability**
- **Remote Management**
- **DS1 and DS3 Delivery for Cell Sites**
- **Redundancy, Reliability**
- **Terminal MUX Applications**
- **Cost-Saving Solutions**

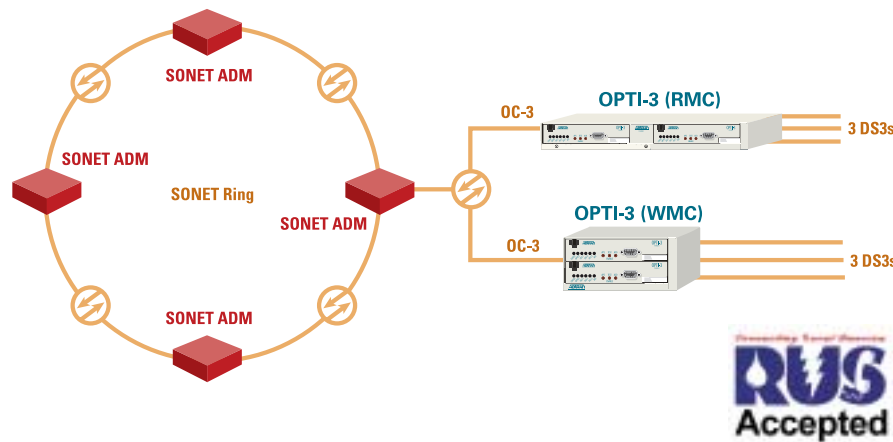
sets a new mark for OC-3 multiplexers, delivering three DS3 circuits from a single OC-3 feed in a compact footprint with flexible mounting options.

Designed to meet the growing demand for DS3 deployment in today's economy, the OPTI-3 eliminates the need for expensive SONET multiplexer equipment in terminal mode applications and provides the fullest use of OC-3 capacity. The space-saving OPTI-3 provides mounting flexibility with either a small 3.5-inch high wallmount chassis (WMC) or one-rack-unit high rackmount chassis (RMC).

## Cost-effective DS3 Service Off SONET Rings

The OPTI-3 is interoperable with other SONET devices complying with GR-253 for easy deployment in new and existing SONET networks. Providing three DS3 interfaces per one GR-253 compliant OC-3 port, it is the most cost-effective solution for broadband delivery. The OPTI-3 eliminates the need for large and costly Add/Drop Multiplexing systems at a price competitive with inefficient single-delivery DS3 solutions.

## SONET Ring to Termination Point



# Flexibility

The DS3 BNC coax connectors are located on the rear of the OPTI-3 chassis. This permits easy access to the

A carrier-class device, the OPTI-3 meets the needs of applications that require extended temperature range operation such as remote terminals and cell sites. The fully integrated design supports optional redundancy and is the most economical choice for both SONET ring delivery and point-to-point applications.



ADTRAN's OPTI-3 Rackmount

The OPTI-3 is easily managed with support for TL1 commands over the Data Communications Channel (DCC) and SNMP. It operates with ADTRAN's Total Access® Element Management System (EMS) and Telnet for remote menu operation. Additional management features include a local craft interface, remote alarm transport via DCC, and alarm reporting to legacy alarm systems.

The unit requires only a fraction of the footprint and power normally needed for optical deployments. The rackmount chassis mounts in a standard 19-in. or 23-in. rack and has front panel LEDs for convenient display of status information.

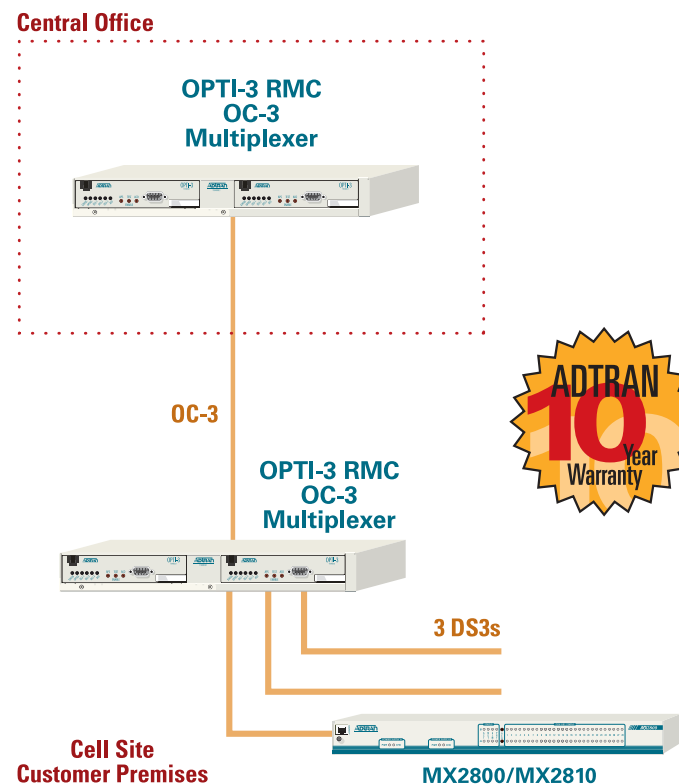
## Industry Compliance and Interoperability with ADTRAN Reliability

The OPTI-3 is NEBS Level 3 compliant and fully interoperable with industry-standard SONET multiplexers. It comes with ADTRAN's standard 10-year warranty for carrier-class products, and the reliability and industry-leading service support that defines all ADTRAN products.

The OPTI-3 can also be configured to operate redundantly with optional protection. It can upgrade online from unprotected to protected status.

customer side of the network for a convenient demarcation point, or to extend services to DS3 multiplexer applications. The fiber optics enter the chassis from the front of the unit and terminate on the card with a dual SC connector for simple installation. The unit provides for external auxiliary alarm inputs, and the RMC chassis provides additional alarm outputs for CO alarms.

## Point-to-Point



Wallmount

Rackmount

OPTI-3

OC-3 Multiplexer