

STM - 1/4 Optical Access MUX

Product Features

- Carrier-class STM 1/4 SDH multiplexer in a compact (2U high), full capacity arrangement
- Two chessis options: MX at 445 mm wide and SMX at 216 mm wide
- Single or double ended deployment into meny SDH multiplexers
 Ethernet over SDH capability,
- GFP ITU-T G.7041 compliant

 Supports high- and low-order VCAT
- DSI and IP/PPP over DCC
 Dptional auto in-service for
- E1, DS3, and Ethernet transport services with optional redundancy
 No stranded capacity – capital
- savings are immediate all capacity is available for revenue producing services Range of up to 80 km using
- 1310/1550 nm one or two fiber

 Comprehensive maintenance capabilities TL1, SNMP, craft menus; Total Access EMS support: elarm and event log
- Management functions and alarms over the DCC for manageability within the TMN framework
- Up to 63 E1s fed directly from the system
 Up to 12 DS3s fed directly from
- the system

 Both ±24 and -48 VDC powering:
- optional AC kit
- Extended temperature hardened
 Remote menu via Telnet

OPTI-6100 SDH Multiplexer Service providers are faced with capital

constraints and the continuing need to incrementally expand existing infrastructures in a cost-effective manner. They frequently face challenges posed by the limited electrical range of DSS and E1s and the cost of converting optical to electrical interfaces for transport through expensive high-capacity network elements.

The ADTRAN® OPTI-6100⁵⁰ delivers all the

versatility and functionality that today's service providers need for coat-effective network in expansion. This compact, state-of-the-art unit state-of-the-art today of the coat-of-the-art unit entities province. The CPT1-elifo consolidates discrete optical and multiplecer network elements into one small 2U (89 mm) high chassis. Two chassis options are available, the MC (485 mm wide) and the SMX (216 mm wide). The KX mounts in a standard 454 mm the coat-one of the coat-one of the coat-one of the the coat-one of the coat-one of the coat-one of the the coat-one of the the coat-one of the coat-one of the the coat-one of the coat-one of the the coat-one of the coat-one of the coat-one of the t

485 mm rack.

The feature set, small footprint, low cost, and divese deployment options of the OPTIGillo make it a powerful tool for optical delivery of El, STM-1, DSS and Ethernet. It supports all of the maintenance and administration tools necessary for service providers to administration tools necessary for service providers to administrate the described of the delivery, its fully imagenetic dancy features expected of carrier-class broadband multiplexers.

OPTI-6100 is the industry's first STM-1/4 multiplexer to deliver a combination of E1, DS3, and Ethernet drops. ADTRAN provides the ability to utilize all of the bandwidth in an optical network interface for customer services

without stranded bandwidth. Its compact design is significantly smaller than similar products and it delivers superior functionality at a fraction of the price. Topology

- Terminal mode, subtended off an SDH compliant multiplexer
 End-to-end OPTI-6100 (MX or SMX)
- SNCP ADM ring, STM-1/4 Architecture
- Very low card count, high degree of integration, compact design
- Optional protection of high-speed interfaces
- Optional protection of low-speed interfaces, E1, DS3
- Services OPTI-6100 (SMX Chassis)
 E1 (1 to 21 with redundancy)
 - DS3 (1 to 6 with redundancy)
 Ethernet (1 to 16)
- Services OPTI-6100 (MX Chassis)
 - E1 (1 to 63 with redundancy)
 DS3/EC-1 (1 to 12 with redundancy)
 Ethernet (1 to 48)

The OPTI-6100 consists of a common equipment module (the OMM), a maintenance interface module (the SCM), and line cards (tributary modules). The common equipment module contains a high-speed interface and cross-connect circuity.





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and a TL 1000 certified supplier

161184501L1G-8B June 2006
Convints 0 2006 ADTRAN Inc.

STM-1/4 Optical Access MUX

OPTI-6100 SDH Multiplexer



Product Specifications

Front Panel Features

SCM medule: Status and Alarm LEDs
 OMM, DS3, E1 Trib medules: Status, Alarm, Driline, and Test LEDs

 Ethernet 10/100 modules: Status, Link, and Activity LEDs

Mechanical

Dimensions MX: 89 mm H X 445 mm W X 293 mm D

Dimensions SMX: 89 mm H X 216 mm W X 293 mm D

m Dimensions SMX: 89 mm H X 216 mm W X 293 mm.D m Weight MX: Chassis 3.9 kg, 6.4 kg fully loaded m Weight SMX: Chassis 2.1 kg, 3.2 kg fully loaded m Mounting MX: Reckmount

Mounting SMX: Rackmount or wallmount
 Fiber connectors: SC, LC
 Coax connectors: BNC

m E1 connectors: Champ

III Fan assembly: 1U high with integrated alarming

Interfaces Network Interfaces

work interaction

If STM-1 LR, IR (Terminal or SNCP), 1310,1550 nm

STM-4 LR, IR (Terminal or SNCP), 1310,1550 nm

Note: STM-14 SNCP modules have integrated any-to-any
WC12 and WC3 cross seemed canabilities

Tributary Interfaces

■ STM-1 IR, LR, MM ■ STM-4 IR, LR, MM ■ Ethernet 10/100/1000

Ethernet over SDH = 10/100BaseT, HI/LO VCAT = GFP (G.7041)

■ X.86 ■ Bridge, L2 switch modes Protection

■ Network: 1+1 (Linear MSP or SNCP) (optional) ■ Tributary: 1:1 (optional)

Regulatory Standards

NEBS Level 3

ETS 300 386

■ EN 60950 ■ EN 55022

■ ETS 300 019 ■ CE Mark

Technical Standards

■ ITU-T G.703 ■ ITU-T G.707 ■ ITU-T G.957, G.958 ■ ITU-T G.813

■ ITU-T 6.783 ■ ITU-T 6.784 ■ ITU-T 6.7041

Electrical

■ ±20 to 80 VDC, optional AC power supply is available

Management

Local: Craft port on front panel

Remote: TL1 (DCC), SNMP, Teinet, Ethernet

Environmental alarma: 19 inputs (with EFANM)

Environmental

■ Operating temperature: -40°C to +65°C

■ Storage temperature: ~40°C to +85°C ■ Relative humidity: 5 to 95 percent, noncondensing

Ordering Information
For equipment ordering information visit:

http://www.adtran.com/opti-6100

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