

SDH TRANSPORT

FLX2500A

Flexible Add/Drop Multiplexer

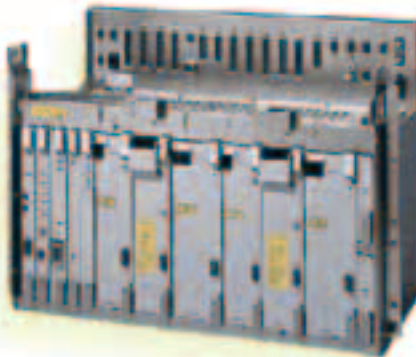
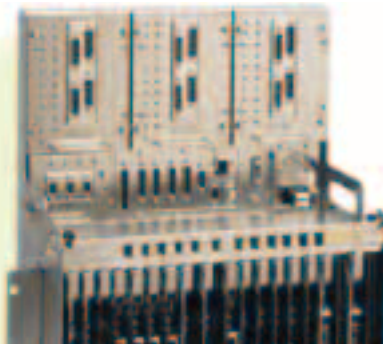
Flexibility and Survivability for SDH-Based Network Services

FLX2500A is a highly flexible system that can be configured into a number of possible operating modes. It can serve as a hub and is ideal for building advanced ring, hub, and point-to-point networks and for long-distance transportation.

The FLX network can be managed efficiently and in a cost-effective manner using FLEXR® *Plus* or FLEXR® management platforms. This can be done remotely using an X.25 link or an LCN, or locally using a direct connection.

Main Features

- Flexibility and upgradability (including in-service)
- Modular plug-in unit design
- High survivability against transmission failures (protection of equipment and traffic at the line and unit levels)
- Quick and easy downloading of software upgrades from the network management system
- Alarm and performance reporting to the management system
- Efficient maintenance operation using orderwire, housekeeping, and 64 kbps user channel
- Extended transmission distances possible when used with FLX-OPX optical amplifier, which can be mounted in the same rack



Flexible Configurations

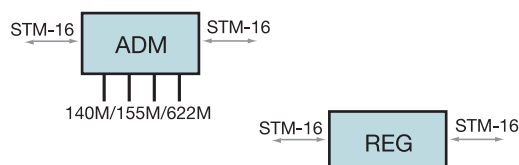
Multiplexer: aggregates STM-16, 140 Mbps tributaries, and STM-1/4

Hubbing (HUB): ideal as a central node

Ring Add/Drop (R-ADM): ideal for ring networks

Terminal (TRM): ideal for point-to-point networks

Regenerator (REG): for STM-16 long-distance transportation. For longer-distance applications, the FLX2500A can be used with the FLX-OPX optical amplifier to enable increased transmission spans.



FLX2500A

Flexible Add/Drop
Multiplexer

Features and Specifications

Aggregate Capacity

2 x STM-16

Tributary Capacity

Maximum number of each type of interface port:

Unprotected: 16 x 140M, 16 x STM-1 electrical/optical,
or 4 x STM-4

Protected (1+1): 16 x STM-1 optical or 4 x STM-4

A mixture of different tributary interfaces (140M, STM-1
elect./optical, and STM-4) up to a total equivalent capacity of
STM-16 can be configured, subject to some restrictions.

Cross-Connect Level

VC-12, VC-3, and VC-4

Cross-Connect Capacity

(Max.) 48 x STM-1 equivalent (VC-4)

Protection (Traffic)

1+1 MSP protection: STM-1 optical, STM-4, STM-16

MS-SPRing: STM-16

Synchronization interfaces

2.048 Mb/s: ITU-T G.703 or 2.048 MHz: ITU-T G.703

Network Management Interfaces

Local terminal interface: V.24

NMS interface: X.25/LCN

Input Voltage Range

-48 V DC nominal

Power Consumption

Typical: STM-16 ring ADM with STM-1 electrical
(1+0) x 16 tributaries: 480 W

Shelf Dimensions

The FLX2500A consists of one high speed shelf (HS1) accommodating aggregate
interfaces and up to four tributary shelves (TR). The FLX-OPX optical
amplifier is optional for longer-distance applications.

HS1: 375 (H) x 500 (W) x 280 (D) mm

TR: 275 (H) x 500 (W) x 280 (D) mm

FLX-OPX: 375 (H) x 500 (W) x 280 (D) mm

Temperature Range

0 to 45°C

Relative Humidity

Up to 95% at 25°C

Specifications subject to change without notice.

FLX 2500A Multiplexers (Hubbing, Ring Add/Drop, Terminal), Regenerator

