

SDH TRANSPORT

Flexible Add/Drop Multiplexer

FLX600A

Flexibility and Survivability for SDH-Based Network Services

FLX600A is a highly flexible system that can be configured into a number of possible operating modes. It can serve as a hub or a digital cross-connect (DXC) system and is ideal for building advanced ring, linear, and point-to-point networks.

The FLX network can be managed efficiently and cost effectively 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, path, and unit levels)
- Digital cross-connect capability allowing flexible traffic routing
- 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



Flexible Configurations

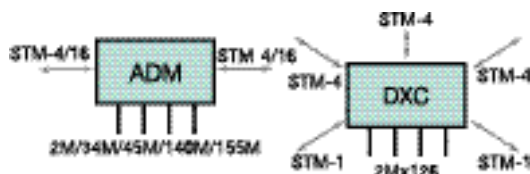
Multiplexer: aggregates STM 4/16, 2/34/(45)/140 Mbps tributaries, and STM-1/4

Hubbing (HUB): ideal as a central node

Add/Drop (ADM): ideal for linear networks (L-ADM) and ring networks (R-ADM)

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

DXC systems: cross connects any pair of signals transferred over STM-1/4/16 lines at any VC level and is ideal for a simple meshed network and for an inter-ring application.



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Multiplexer

Features and Specifications

Aggregate Capacity

2 x STM-4 or 2 x STM-16

Tributary Capacity

Number of interface ports/unit:
2M: 21
34/45M: 3
Others: 1

Maximum number of each interface port:
(Protected/unprotected) 126 x 2M, 6 x 34M,
(6 x 45M), 4 x 140M,
4 x STM-1 electrical,
5 x STM-1 optical,
1 x STM-4

1 x STM 4/1 plus an additional STM-4 of capacity configured among the interface options above, subject to some restrictions.

Cross-Connect Level

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

Cross-Connect Capacity

16 x STM-1 equivalent (1,008 x VC-12)

Synchronization interfaces

2.048 Mbps: 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

Protection

Unit protection 2M(3:1)/34M, (45M), 140M,
STM-1 electrical (1+1)

Traffic 1+1 MSP protection: STM-1 optical, STM-4
VC path protection: VC-12, VC-3, or VC-4

Input Voltage Range

-48/-60 V DC nominal

Power Consumption

STM-4 linear ADM with 2M x 126 (3:1) and
STM-1 electrical (1+1) x 2 and STM-4 (1+1) x 1 tributaries: 330 W

Shelf Dimensions

875 (H) x 450 (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 600A Multiplexers (Hubbing, Add/Drop, Terminal) Digital Cross-Connect (DXC) System

