



Fujitsu's FLX-150A - Flexibility and survivability for SDH-based network services

Fujitsu's FLX150A is a highly flexible system that can be configured into a number of possible operation 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.

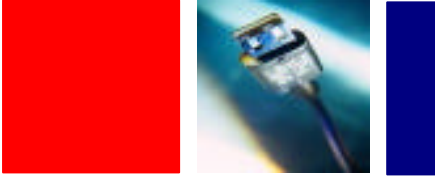
The FLX network can be managed efficiently and cost effectively using FLEXR management platforms. This can either be done remotely using an X.25 link or an LCN, or can be done locally using a direct connection.

Main features of the FLX-150A include:

- Flexibility and upgradeability (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 64kbps user channel

The FLX150A supports either STM-1 or STM-4 linear or ring-based network architectures. This equipment provides built in VC-12/3/4 cross-connect capabilities and can be configured as a ring or linear Add/Drop Multiplexer (ADM), Terminal Multiplexer (TRM), Hubbing Node (Hub), stand-alone Digital Cross-Connect (DXC) or Regenerator (REG).





Features and Specifications

Operating Modes

- STM-1/4 terminal multiplexer (TRM)
- STM-1/4 add/drop multiplexer (ADM)
- STM-1/4 add/drop multiplexer (HUB)
- STM-4 regenerator (REG)

Traffic Protection

- Multiplex section protection (MSP)
- Sub Network Connection Protection (SNCP)
- Tributary Unit Protection

Cross-Connect Level and Capacity

- VC-12, VC-3, VC-4
- High Order Capacity of 14 x AU-4
- Low Order Capacity of 8 x AU-4 equivalent

Interface Ports

- Aggregate : 2 x STM-1 (electrical, S-1.1, L-1.1) or 2 x STM-4 (L-4.1, L-4.2)
- High dispersion tolerance STM-4 optical interfaces allowing extended span reach
- Tributary : 4 x STM-1 (electrical, S-1.1, L-1.1), 4 x 140Mbps, 12 x 45Mbps, 12 x 34 Mbps, 63 x 2 Mbps

Synchronisation Interfaces

- 2,048kbps, 2,048kHz to ITU-T G.703

Overhead Access

- Engineering orderwire: 2-wire, 4-wire 600Ω balanced

- User Channel: 64kbps to ITU-T G.703
- Network Management
- SWDL from local terminal or NMS
- Local terminal interface: V.24
- NMS interface: LCN or X.25
- Housekeeping alarms

Mechanical Arrangement

- Shelf: 500(H) x 450(W) x 280(D)mm
- Rack: 2,200(H) x 600(W) x 300 (D)mm to ETSI racking practice

Power Supply

- -48 or -60 VDC nominal

Environmental Conditions

- Temperature: 0°C to 50°C (normal) or -40°C to 65°C (extended)
- Relative Humidity: Up to 95% to 25°C

About Fujitsu

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