

# TraverseEdge 50

## Multiservice Edge Multiplexer

### Key Features

- Supports linear, ring and point-to-point SONET/SDH topologies (1+1 APS/MSP, SNCP and UPSR)
- Integrates optional narrowband Digital Cross-Connect Switch (DCS/DXC)
- Full Ethernet over SONET/SDH feature set includes GFP, HO/LO VCAT and LCAS
- Compliments the Traverse® Multiservice Transport Switch

### Multi-level Grooming

The TraverseEdge 50 offers the flexibility to connect each interface to any of the addressable 63 x E1 or 84 x T1 virtual containers/tributaries in an SDH/SONET trunk with legacy voice and TDM private line services to maximize efficiency.

The TE-50 can also cross connect at the DS0 level to enable highly efficient delivery of services, including mid-stream grooming, sub rate services and traditional voice services.

### Protection

For point-to-point applications, the TE-50 supports industry standard MSP/APS 1+1 protection. For ring applications, the TE-50 supports SNCP/UPSR path protection.



The TraverseEdge™ 50 combines flexible Ethernet, TDM and SONET/SDH access in a modular, 1RU shelf. The TE 50 multiplexer offers global solution supports ANSI and ETSI/ITU-T network environments and redundant STM-1/OC-3 trunk/ring interfaces.

### Multiservice Metro Access Edge Multiplexer

The TraverseEdge 50 (TE-50) is a flexible multiservice metro access solution targeted for STM-1 and OC-3 ring, linear, and point-to-point applications. Delivering a wide range of services in a powerful, yet compact, 1RU package, the TE-50 offers the ultimate in flexibility. The TE-50 design supports 16 hot-swappable interface modules. Two slots are reserved for redundant optical trunk/ring interfaces (1+1 APS/MSP, SNCP and UPSR), and 14 slots are provided for Ethernet, E3/DS3, E1/T1, serial data, and voice tributary interface modules. The TE-50 is ideal for applications such as a Carrier Ethernet and TDM CPE device, a narrowband Digital Cross Connect (1024x1024 DS0 DCS), a mid-stream grooming element, and a voice and data channel bank.

Users can configure their TE-50 from three baseline models.

**TE-50-SS** – SONET/SDH transmission with Ethernet and DCS

**TE-50-IA** – Voice and Data Multiplexer with Ethernet and DCS

**TE-50-EV** – Data Multiplexer across DS3 trunk with Ethernet

### Lower Cost of Ownership

This highly integrated product sets a new benchmark for edge network device cost savings. The TE-50 delivers more services per rack unit at a lower price per circuit cost. It is ideal for the most crowded Telco Central Office or for any customer premise. The TE-50 requires much less space, power, air conditioning, and UPS draw than typical multi-unit solutions. Customer cost for product acquisition, installation, training, support, and spares provisioning, are significantly reduced with the TE-50 single unit solution.

### Operational Advantage

The TE-50 features the versatile element manager GUI for local and remote node management, user-defined monitoring, and rapid configuration and deployment. All power and interface terminations are provided on the front panel – which also offers status and additional diagnostic displays. Advanced availability features and enhanced power management maximize reliability and service availability.

# TE-50 Multiservice Edge Multiplexer

## Chassis

**TraverseEdge 50 (TE-50)**  
1RU, 45 mm (H) x 300 mm (D) x 420 mm  
483 mm (W) with rack mount ears

## Topology

Ring and Terminal

## Power

48VDC supply, -40V to -60VDC, Complies with  
ETS-300 (132-2)

Optional Power supply  
120VAC to 240VAC, Frequency 50Hz to 60Hz  
(Plug Pack)

## Power Consumption

Up to 100 Watts maximum fully populated

## Environmental

Temperature: 0°C to +50°C  
Humidity: 0% to 95% Non-condensing

## Management

Centralized software update  
Centralized configuration

## Node Management

EMS: front panel or Ethernet, Ethernet over  
DCC SNMP over Ethernet or DCC (configurable  
D byte usage)

## Management Transport

TCP/IP direct connection, in band, or DCC. RFC  
1812 compliant routing with RIP

## DCS (DS0)

1024 x 1024 x 64kbps

## Synchronization

G.957, G.691HW serial  
No Electronic audit of chassis and interface  
modules

## Trunk Type

STM-1/OC-3

## SDH Multiplexing

VC12, VC11, VC3

## SONET Multiplexing

VT2, VT1.5, STS1

## Protection

MSP/APS 1+1 (point-to-point); SNCP/UPSR

## Port Capacity

E3/T3	3 (6 ports configurable to 3x1+1)
E1/T1	94
Serial (X.21 & RS-232)	28

Voice (FXS/E&M)	24
Ethernet	14

## Clocking

3 levels, 3rd and backup Stratum 3

## Jitter

G.823

## Performance

G.821, G.826

## Compliance

### Safety

EN 60950 / UL60950 / AS-NZS60950:2000

### EMC

AS3548, CISPR-22, EN55022, AS/NZS3548

### Other Compliances

ITU-T K.11, K.20, K.21, FCC68

### Compliance Marks

CE, UL, FCC15B, "A" Tick (incorporates "C" Tick).