

# TransAccess 200

## Modular Multiplexer

### Key Features

- Supports 1+1 APS/MSP for STM-1/OC-3 optical trunks
- 1:1 protection switching for electrical T1/E1 and DS3/E3 tributary modules
- Global solution supports ANSI/SONET and ETSI/SDH network environments
- Complements the Traverse<sup>®</sup> Multiservice Transport Switch
- Standard Amphenol/Telco connectors for T1/E1 connections (optional 3RU version only)
- Software programmable M13 multiplexing

### Key TA-200 Applications

- High-density / low-power M13 multiplexing in co-location environments
- Consolidating T1/E1 and DS3/E3 connections onto SONET (OC-3) rings



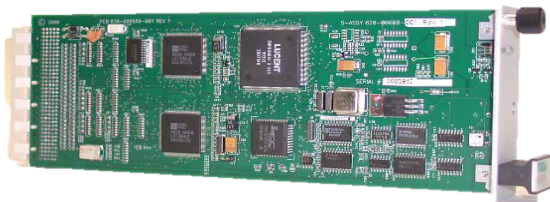
This modular, cost-effective multiplexer is optimized for consolidating T1/E1 and DS3/E3 connections onto SONET/SDH at trunk rates up to OC-3/STM-1. It also features a carrier-grade NEBS Level 3 certified design.

### Consolidating T1/E1 and DS3/E3 Connections onto the SONET/SDH Transport Network

The TransAccess<sup>™</sup> 200 (TA-200) is a flexible, cost-effective edge multiplexer optimized for consolidating T1/E1 and DS3/E3 connections onto the SONET/SDH transport network at trunk rates up to OC-3/STM-1. The chassis-based design of the TA-200 integrates the functionality of up to seven M13 muxes in a small (2 or 3RU) footprint making it ideal for deployments where space is at a premium, such as CPE and co-location environments. The TA-200 is also a global solution that supports both ANSI/SONET and ETSI/SDH applications.

### Flexibility and Efficiency

TA-200 takes multiplexing to a new level of flexibility and space efficiency. Connect your T1s or E1s and transport them as traditional T1s in an OC-3 or as E1s in an STM-1. Choose a number of multiplexing options including T1 to T3 to OC-3, T1 to VT1.5 to STS-1 to OC-3, E1 to T3 to OC-3, E1 to VT2 to STS-1 to OC-3, or E1 to TU-12 to AU3 to STM-1. The low power consumption and small footprint make it ideal for co-locations. A carrier-class solution, the TransAccess 200 provides redundancy on both the high-speed and drop ports for added reliability. Integrated T1/E1 testing make fault isolation routine, and unlike most M13 muxes, T1/E1 framing information is included to provide additional performance statistics.



- 7 fully redundant M13 MUXes in 2 rack mounting spaces
- Only MUX available with both T3 and STS-1 interfaces
- Terminal, Telnet, SNMP, Web and TL-1 management interfaces
- Ideal for co-locations or wherever space is at a premium

# TransAccess 200 Modular Multiplexer

## Chassis

### TransAccess 200 Multiplexer

- Dimensions 19" Shelf
  - 10 service module slots (5 pairs)
  - 2RU: 3.5" H x 17.37" W x 12" D
  - 3RU: 5.25" H x 17.37" W x 12" D
- Weight (19"): Max of 20 lbs. fully loaded
- Dimensions 23" Shelf
  - 14 service module slots (7 pairs)
  - 2RU: 3.5" H x 21" W x 12" D
  - 3RU: 5.25" H x 21" W x 12" D
- Weight (23"): Max of 25 lbs. fully loaded

## Power

- -48VDC or +24VDC, 118 watts (23" shelf) or 90 watts
- Separate A & B battery feeds

## Environmental

- Ambient Operating Temp: 0°C to +45°C
- Humidity: To 95% max. relative humidity

## System Management

- VT100 terminal
- Telnet
- SNMP (Fully-compliant Charles Industries MIB)
- Web Browser
- TL-1
- Serial interface, 1200 baud to 115 kilobaud
- Ethernet 10BaseT, RJ45 Connector
- Remote management via SONET DCC

## OC-3/STM-1 Interfaces

- Line Rate: 155.52 Mbps +/- 20ppm
- Output Power (IR): -8 dbm to -15 dbm
- Input Sensitivity (IR): -29 dbm
- Output Power (LR): 0dbm to -5dbm
- Input Sensitivity (LR): -32 dbm
- Optical Connector: LC
- Optical Cable: Single-mode 1310 nm or 1550 nm

## T3 Interfaces

- Line Rate: 44.736 Mbps +/- 20ppm
- Line Format: Bipolar B3ZS encoded
- Framing: C-Bit Parity or M13
- Line Build-Out: 0-900 feet
- Input Level: 35mV to 900mV
- Clocking: Loop or Internal Timed

## STS-1/AU3 Interfaces

- Line Rate: 51.84 Mbps +/- 20ppm
- Line Format: Bipolar B3ZS encoded
- Payload Mapping: Asynchronous T1/ E1/ T3
- Line Build-Out: 0-900 feet of cable
- Input Level: 35mV to 900mV
- Clocking: Loop or Internal Timed

## T1 Interfaces

- Line Rate TX: 1.544 Mbps +/- 50 ppm
- RX: 1.544 Mbps +/- 130
- Line Code: AMI or B8ZS
- LBO Settings: 0 to 655 ft.
- Line Framing: SF (D4), ESF, or Unframed
- Line Interface: Six 68-pin SCSI

## E1 Interfaces

- DLine Rate: 2.048 Mbps +/- 50ppm
- Line Code: AMI or HDB3
- Line Framing: CCS, CAS, Unframed
- Line Interface: Six 68-pin SCSI

## Performance Monitoring

### Cumulative and Severely Errored Seconds:

- T1/E1 BPV
- T1/E1 CRC errors
- T3 CP-bit errors
- STS-1 Section (B1) errors
- STS-1 Line (B2) errors
- T1/E1 Frame Bit errors
- T3 P-bit errors
- T3 FEBE errors
- VT1.5 Parity errors
- VT2 Parity errors

## Certifications

- NEBS level 3
- UL/C-UL
- FCC Part 15
- NEBS Level 3
- CE Mark