

# QUAD DSX-1/E1

## TOTAL ACCESS™ 3000 QUAD DSX-1/E1 ACCESS MODULE

### PRODUCT FEATURES

- Software configurable via menu access or SNMP
- Supports T1 or E1 line interfaces without component changes via software configuration
- Supports fractional T1/E1 line interfaces via software configuration
- Supports standard T1 MIB 1406 for alarm states
- Supports extended NUB protocol for NTU management

The Total Access 3000 Quad DSX-1/E1 Access Module is designed to interface with the TA 3000 DS3 Packet Switch Module, DS3 Cell Switch Module, and the TSI Multiplexers. Each line card provides four DSX-1/E1 interfaces to the customer.

The network interface consists of four interleaved TDM frames corresponding to the four port interfaces on the line card. The Quad DSX-1/E1 automatically swaps from the online to the offline mux, if one fails or is physically removed. Each of the four port interfaces consists of a single balanced twisted pair for each direction of transmission.

User access to the Quad DSX-1/E1 Module is through the SCU via the system bus present via the Total Access 3000 backplane. The module generates all menus. The system controller initiates and controls the transfer of commands, which are transmitted and received using an asynchronous serial bus with the SCU serving as the master and all other units operating as slaves. All provisioning and data reporting takes place over the communication bus.

The Quad DSX-1/E1 Access Module interfaces with the SCU for SNMP management. Both provisioning and alarm/LED status is supported.

All provisioning of the module is handled through the SCU communication link. The unit retains provisioning data in a non-volatile memory device for recovery after a power loss and supports optional autoprovisioning through the SCU.

The Quad DSX-1/E1 Module may be set into loopback mode manually through the SCU interface. A number of loopbacks are supported through the manual interface. Included are line, local and payload loopbacks, with optional, provisionable loopback timeouts.

The module detects CRC errors, Bipolar Violations, and frame bit errors in the loop side receiver. These are used to calculate Errored Seconds, Severely Errored Seconds and Unavailable Seconds in accordance with ANSI T1.231-1997. Performance data is available via the SCU interface.

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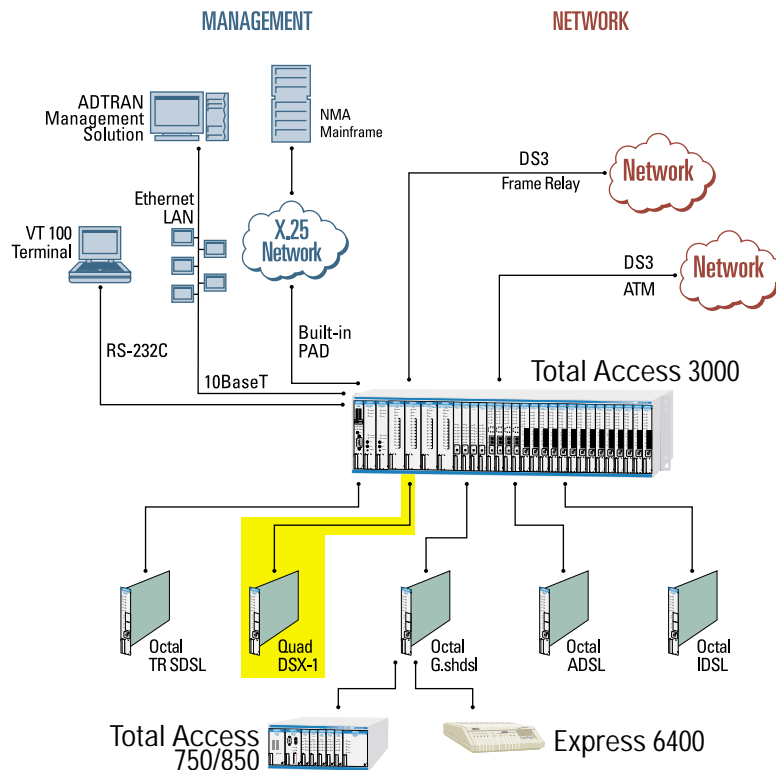
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## Product Specifications

### MECHANICAL

- **Dimensions:** 5.20"H x 0.660" W x 9.25 D
- **Weight:** Less than 1 pound
- **Mounting:** Occupies a single access module slot in the Total Access 3000 or 3010 chassis

### FACEPLATE FEATURES

#### Indicators

- Power
- DSX-1 Loop Status
- Test Status
- Alarm Status

### ELECTRICAL

#### Power requirements

- -48 VDC

#### Regulatory Standards

- NEBS Level 3
- GR-1089-CORE
- UL 1950

### ENVIRONMENTAL

- **Operating:** -40° to +65°C
- **Storage:** -40° to +85°C
- **Relative Humidity:** Up to 95%, non-condensing

## Ordering Information

### EQUIPMENT

### PART #

3000 Quad DSX-1/E1 Access Module 1181402L1

Specifications subject to change without notice.