Product Features

- Applicable SONET/SDH requirements (GR-253-CORE)
- DCC management channel
- 1:1 OC-3 equipment and facility protection switching
- Detects and indicates standard optical and SONET alarm and loopback conditions
- External, line, loop or local timing modes
- Linked provisioning option
- Extended temperature range: \([-40°C to +65°C]\)
- NEBS Level 3 and UL 1950 compliance
- Includes industry-leading 10-year warranty

Standards-based, interoperable network elements are critical for today’s telecommunications networks. The ADTRAN™ Total Access® 3000 OC-3 Multiplexer module transforms the Total Access 3000 system into a SONET network element able to interface with industry standard SONET equipment. The module is designed to operate in the Total Access 3000 23-inch or the Total Access 3010 19-inch chassis.

The OC-3 module is a terminal mode SONET interface and deploys as a termination device substending from a SONET ring. The List 2 OC-3 MUX terminates a single STS-1 in the shelf it occupies, and breaks out the remaining two STS-1s onto two substending Total Access 3000 chassis, each equipped with an STS-1 MUX. In this way, all 84 VT.5s are available for deployment to customers.

The OC-3 module is capable of operating in a single or fully redundant configuration. Full redundancy is achieved by configuring the modules in a protection switching mode in which the online MUX transfers the payload to the offline, or hot standby MUX upon the detection of a fault condition. In normal operation, both modules receive from the network, while only the online module transmits to the network. The “linked provisioning” option of the OC-3 module ensures that both modules have identical provisioning settings in the event of a protection switch to the offline module.

The OC-3 module interfaces to the SONET 192 kbps data communications channel (DCC) for communication to network management or operations support systems (OSS). This interface allows network operations personnel to provision, monitor, and maintain the system from a remote management center.

The OC-3 module provides a highly reliable interface between the local loop and the SONET network. Its reliability rests in its ability to be deployed in a redundant configuration, delivering assurance that the customer will always have a working circuit.

The Total Access 3000 and Total Access 3010, can serve as an office repeater bay, an M13 multiplexer, an STS-1 or OC-3 SONET multiplexer, or an ISDN DLC. Total Access supports HDSL, T1, ISDN, xDSL, and Quad Fiber Optic loop interfaces. It is the industry’s only single chassis that can simultaneously support DS3 and DSX-1, or SONET and DSX-1 network interfaces.
Total Access 3000 Multiplexer Module

**Product Specifications**

**Front Panel Features**

- **LEDs**
  - Power
  - Status

- **Optics**
  - Test

- **Clock**
  - Lockout
  - On Line

- **Switches**
  - APS (automatic protection switching)
  - Test/Enable

- **Mechanical**
  - Dimensions: 5.2 in. H x 1 in. W x 9.7 in. D
  - Mounting: Occupies a multiplexer slot in the ADTRAN Total Access 3000 Chassis

- **Interfaces**
  - Subscriber: 28 DS1s
  - Network: OC-3

- **Electrical**
  - **Power Requirement**
    - ~48 VDC and return for each power bus
    - Frame ground for all metal chassis elements

**Input Power**

- ~48 VDC nominal
- ~42 VDC minimum
- ~56 VDC maximum

**Regulatory Standards**

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

**Management**

- DCC to network management or OSS

**Environmental**

- Operating: ~40°C to +65°C
- Storage: ~40°C to +85°C
- Relative Humidity: Up to 95 percent, noncondensing

**Ordering Information**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Access 3000 OC-3 MUX</td>
<td>1181031L1</td>
</tr>
<tr>
<td>Total Access 3000 OC-3 MUX</td>
<td>1181031L2</td>
</tr>
<tr>
<td>Total Access 3000 OC-3 MUX</td>
<td>1181031L3</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice. ADTRAN is a trademark and Total Access is a registered trademark of ADTRAN, Inc. All other registered trademarks and trademarks mentioned in this publication are the property of their respective owners.