Service providers are optimizing their networks to handle high-speed data along with network-edge concentration and switching. Ideally, service providers want local switching, flexibility, and scalability from a DS3 interface in an access platform. The ADTRAN® Total Access 3000 DS3 Cell Switch Module (CSM) provides the industry's best solution for ATM-based deployments. The DS3 CSM provides local switching capability for ADTRAN's Total Access 3000 multiservice access platform. With DS3 and a variety of subscriber line interfaces, the CSM offers an unmatched degree of flexibility in network design and scalability.

The CSM occupies a single position in the Total Access 3000 and can be used with T1, SHDSL, ADSL, DS1 IMA, DS3, CES, and DS1 Frame Relay line interfaces. High density – up to 224-subscriber lines in a six-inch shelf. UNI3.1 and TM 4.0 compliant. Remotely manageable. IMA and DS3 aggregation supported. Full QoS (CBR, VBRrt, VBRnrt, UBR). Policing and queuing. Oversubscription available for sustained services. Full ATM address space. 7900 VCs. Industry-leading 10-year warranty.
# DS3 Cell Switch Module

## Total Access® 3000 DS3 Cell Switch Module

### Front Panel Features
- Power LED
- Status LED
- Test LED
- ATM LED
- Clock LED
- Lockout LED
- On Line LED

### Mechanical
- **Dimensions:** 5.2 in. H x 1.0 in. W x 9.7 in. D
- Single Total Access 3000 multiplexer slot
- DSX-3 interface through 1181004L2 coax adapter on backplane

### Interfaces

#### Network
- DS3 unchannelized interface
- ATM UNI 3.1/4.0 compliance
- C-bit parity (can be disabled through management interface)
- Payload scrambler on by default (can be disabled through management interface)

#### Subscriber
- 7900 VCs per system, allocated per user requirements
- ATM UNI 3.1/4.0 compliance
- Direct mapped ATM cells
- Payload scrambler per subscriber on by default (can be disabled through management interface)
- Single-bit Header Error Correction option (on per system basis)

### Electrical

#### Power requirements
- –42 VDC to –56 VDC input voltage range
- Fully operational with either A or B power feed

### Regulatory Standards
- NEBS Level 3
- GR-1089-CORE, Issue 3
- GR-63-CORE, Issue 2
- NRTL Safety Listed

### Management
- Supports AIS, RDI, OAM loopback
- OAM&P interface
- TL1 and SNMP management support through SCU
- Supported by Total Access EMS management system
- Synchronized PM and provisioning between active and standby units
- QoS reporting and management
- In-band VPI/VCI for SNMP management traffic

### Automatic Protection Switching (APS)
- 1:1 equipment protection available
- Front panel manual APS control switch

### Timing
- External BITS, line, or local timing modes
- Optional S3E holdover

### ATM Switching
- Supports ATM traffic classes
  - CBR
  - VBRrt
  - VBRnrt
  - UBR
- Per VC queuing and scheduling

### 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>
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<tbody>
<tr>
<td>Total Access 3000 DS3 CSM</td>
<td>1181041L2</td>
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