



DS3 Cell Switch Module

Total Access 3000 DS3 Cell Switch Module

Product Features

- Unchannelized DS3 network interface
- Full local switching capability
- T1, SHDSL, ADSL, IDSL line interfaces
- High density – up to 224 subscriber lines in a six-inch shelf
- UNI3.1 and TM 4.0 compliant
- Remotely manageable
- Suitable for Remote Terminal and Central Office applications
- IMA and DS3 aggregation supported
- Full QoS (CBR, VBRrt, VBRnrt, UBR)
- Policing and queuing
- Oversubscription available for sustained services
- Full ATM address space
- Industry-leading 10-year warranty

From Voice-over-DSL (VoDSL) and high-speed data to network-edge concentration and switching, the ADTRAN™ Total Access® DS3 Cell Switch Module (CSM) provides the industry's best solution for ATM-based deployments. The ADTRAN 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 Frame Relay, and IDSL subscriber line units to address the majority of today's DSL applications. The CSM-equipped Total Access 3000 can function as an ATM switch. Adding a second CSM to the existing shelf provides redundancy. ADSL, IDSL, and SHDSL line cards can be used to provide subscriber line functionality. T1 inter-

faces can be used for business-based voice and data services that are terminated by Integrated Access Devices (IADs) or routers. The Total Access 3000 system can function as the loop access platform, concentration platform, or switch in Remote Terminal, Remote Central Office, or hub Central Office locations due to its small size, high density, and temperature-hardened design.

The CSM also has the option to serve as the core for IMA and DS3 ATM aggregation. The system can service up to 112 IMA ports or 14 individual DS3 ports.

The CSM can be managed through SNMP, Telnet, or local craft interface with VT100 terminal emulation. ADTRAN's Total Access EMS provides the management platform for the Total Access 3000 system for Operations Support Systems requiring Telecommunications Management Network (TMN) support or mediation services for various protocols.



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Product Specifications

Front Panel Features

LEDs

- Power
- Status
- Test
- ATM
- Clock
- Lockout
- On Line

Mechanical

- Single Total Access 3000 multiplexer slot
- DSX-3 interface through 1181004L1 coax adapter on backplane

Interface

Network Interface

- 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 Interface

- 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 to -56 VDC input voltage range
- Fully operational with either A or B power feed

Regulatory Standards

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

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
- 7900 VC capacity

Environmental

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

Ordering Information

Equipment	Part #
DS3 Cell Switch Module	1181041L2

- Fully hot-swappable (ESD wrist strap required)
- Full feature set available when a single multiplexer installed

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