



# DSLAM

## Total Access® 3000 DSLAM

### Product Features

- Cost-efficient, scalable architecture
- T1 IMA, DS3 GIGE, and OC-3c network interface options
- Services ADSL, ADSL with splitters, SHDSL, DS1, DS1 Frame Relay, CES and other technologies
- Performs IMA and DS3 aggregation functions
- Smaller, compact DSLAM for secondary COs and RTs – scales for larger applications
- OSP compliant with temperature-hardened components
- Service-ready for deployment in CO, RT, MTU
- TDM and ATM capabilities with the ability to migrate to IP
- CBR, VBRrt, VBRnrt, UBR, and Voice over DSL (VoDSL) support
- NEBS Level 3; GR-1089-CORE, Issue 3; GR-63-CORE, Issue 2 compliant
- Industry-leading, 10-year warranty

**Capital expenditures remain a concern for carriers. Ideally, they want a DSL multiplexer that can be used across their entire DSL network infrastructure.** The ADTRAN® Total Access 3000 DSLAM is a cost-efficient scalable multiplexer compactly designed for service-ready deployment in the Central Office (CO), Remote Terminal (RT), and Multi-Tenant Unit (MTU) environments. It provides full DSLAM functionality in only six inches of rack space (not including required fan capacity). The Total Access 3000 DSLAM is a safe capital investment, ideal for these capital sensitive times, because it facilitates technology migration by handling TDM to ATM transition with options for IP switching as well. A versatile DSLAM solution, the platform is temperature hardened and a key network element for carriers who need flexibility in deployment to provide DSL and other services to residential and business customers.

The Total Access 3000 DSLAM can support up to 224 users with the octal access modules. The system can scale to higher port counts using the high-density expansion (HDX) architecture. This allows seamless transition enabling service for up to 1,344 customers.

The main components of the Total Access 3000 DSLAM are the System Controller Unit (SCU), Cell Switch Modules (DS3, OC-3c, SM2 or 128-port), and up to 28 individual line cards. Access to differentiated services ports include ADSL, SHDSL, ATM DSX-1, Circuit

Emulation Service (CES), DS1 Frame Relay, DS3, and DS1 IMA. The Total Access 3000 DSLAM was designed and tested to meet outside plant environmental requirements including thermal loading. Its operating temperature range is -40°C to +65°C.

The SCU facilitates flexible, economical management while supporting both local and remote provisioning. The card is hot swappable and provides console access and alarm contact closures.

The DS3, OC-3c, and 128-port CSMs install into a single CSM slot in the Total Access 3000 DSLAM chassis. A dual configuration is optional for each CSM to provide redundant capability, with the system being fully functional with only a single CSM installed.

The Octal DS1 Inverse Multiplexing over ATM (IMA) Module will aggregate other DSLAMs to include Total Access 3000, Total Access 1200 Series Mini-DSLAMs, or Total Access Outside Plant Data Access Terminals allowing better utilization of the incoming DS3 ATM bandwidth to a Gateway. The subtended unit can be either located at another CO, RT, or on a customer premises. The IMA card can be used by the network feed to subtend off another DSLAM or an ATM switch.

Additionally, the Total Access 3000 DSLAM can be populated with DS3 modules which allow for DS3 aggregation. These modules can be interspersed with any of the other modules supported by the system.

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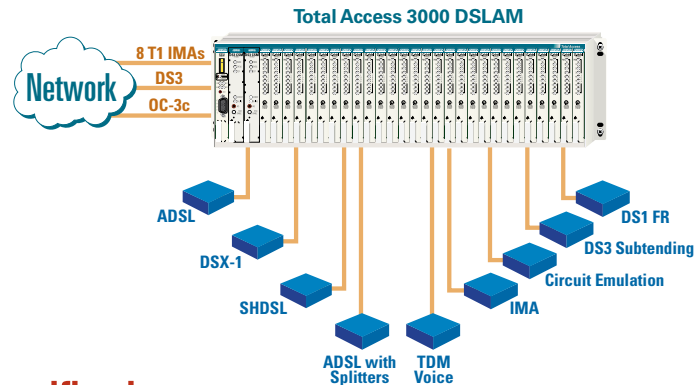
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## Total Access® 3000 DSLAM



## Product Specifications

### Key Modules

- System Controller Unit (SCU)
- DS3, OC-3c, or 128-port Cell Switch Modules (CSMs)
- Voice Cell Processor (VCP)
- **DSL-specific line cards:** ADSL, SHDSL, DSX-1, DS1 IMA

### Minimum Configuration

- SCU, CSM, and a single line card

### Mechanical

- **Dimensions:** 6 in. H x 19 in. or 23 in. W x 12 in. D
- **Weight:** 14.35 lb (23 in. main chassis)  
11.58 lb (19 in. main chassis)

### Interfaces

#### Network

- OC-3c
- DS3
- GIGE
- DS1 IMA

#### Subscriber

- SHDSL 8 ports or 16 ports
- SHDSL IMA 16 ports
- SHDSL EFM 16 ports
- DSX-1 4 ports
- DS1 IMA 8 ports, dual wide card
- DS1 EFM 8 ports, dual wide card
- Voice Cell Processor 1 DS1 port
- DS3 Line Module 1 port
- Circuit Emulation 4 DS1 ports
- ADSL2+ 16 ports
- ADSL2+ with splitters 8 ports, dual wide card
- DS1 Frame Relay 4 ports
- MLPPP 4 ports

### Clocking

- Network
- Local
- DS3
- Internal
- IMA port
- BITS

### Alarms

- External alarm contacts for Critical, Major, and Minor alarms
- Normally open and normally closed pinout
- Front panel alarm cutoff switch (ACO)

### Electrical

- 15 Amps
- –42 VDC to –56 VDC input range

### Regulatory Standards

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

### Management

- **Local management:** TL1, EMS, Ethernet interface for SNMP
- **Remote management:** TL1, SNMP

### Environmental

- **Operating:** –40°C to +65°C
- **Storage:** –40°C to +85°C
- **Relative humidity:** Per GR-63

## Ordering Information

Equipment	Part #
Total Access 3000 SCU	1181018L3
Total Access 3000 DS3 CSM	1181041L2
Total Access 3000 128-port CSM	1181041L4
Total Access 3000 TSI DS3 MUX	1182020L1
Total Access 3000 OC-3c CSM	1181044L1
Total Access 3000 Quad DSX-1/E1	1181402L1
Total Access 3000 Octal SHDSL	1181403L2
Total Access 3000 Octal DSI EFM	1181409L4
Total Access 3000 Octal IMA	1181409L12
Total Access 3000 Voice Cell Processor	1181410L1
Total Access 3000 DS1 Frame Relay	1181415L1
Total Access 3000 Circuit Emulation Module	1181420L1
Total Access 3000 ADSL2+	1181426L1
Total Access 3000 ADSL2+ with Splitters	1181426L2
Total Access 3000 16-port SHDSL IMA	1181429L1
Total Access 3000 16-port SHDSL EFM	1181429L3
Total Access 3000 16-port SHDSL 2w/4w	1181422L1
Total Access 3000 MLPPP Module	1181416L1