

Total Access 850 VoDSL

Product Features

- Carrier Class integrated access device
 Modular network inter-
- Modular network interface for VoDSL or VoATM compatibility
- Seamless voice and data integration over DSL or T1
 Up to 24 TR-57 compliant
- analog POTS interfaces

 ATM and Frame Relay
 support
- Compatible with industryleading DSLAMs and Voice over Broadband cateways
- IP router for integrated data support and Internet access
- V.35 Nx56/64 DTE interface
- Full security and LAN protection
 NEBS and UL 1950
- compliant
- Rugged metal chassis
 Industry-leading
 - 10-year warranty

Modular Integrated Access Device

A component of the Total Access System, Total Access Sey's a completely modular Carrier Class integrated access device designed for cost-effective deployment and seamless integration of combined services at the customer's premises. The Total Access 850 provides enterprise users and integrated comnumications providens, such as CLEGA, IEEG., and ISPs, a viable migration path from TDM to packet-based technologies, including VoATM and VoETM.

The Total Access 850 bas two common slots and eight access slots allowing the customer to combine a variety of voice and data services into a single platform. Two common cards, the power supply unit (PSU) and the router control unit (RCU), are required for operation. The RCU supports TDM-based applications and can be easily upgraded to support packetbased applications. The RCU activates several user interfaces on the Total Access 850 chassis including the network interface, the Nx56/64 V.35 interface for synchronous data applications, and the integral IP router. Up to six Quad FXS or Quad FXO access modules can be installed to provide support for up to 24 analog voice lines. These analog interfaces support the stringent design and full feature set required by today's carrier, including popular CLASS** features. The VoDSL and VoATM implementations found in the Total Access 850 are compatible with industry-leading VoBB Gateways, Access slots A and B are available for hardware ontions such as echo cancellation/ADPCM support.

The Total Access 850 is housed in a rugged motal chassis and provides the flexibility needed for quick turn-up in harsh environments. Easy access to modules, common cards, and power supplies simplifies maintenance procedures. Hot-swappathe access modules can be replaced without disrupting service to the entire system. An optional ADTRAN battery backup system is available for added security.

The integrated IP router provides a powerful suite of performance and security features. For simultaneous access to the corporate network and the ISB the Total Access 850 offers multiple PVC configurations. Supporting NAT/PAT and packet filtering, the Total Access 850 secures the corporate network from unwanted intrusion.

In a compact, NEBS-compliant chassis, the Total Access 850 provides the added safety and reliability suitable for the customer premises or the central office. About the size of a standard piece of notebook paper, the 8.5-inch by 11-inch 2U chassis minimizes rackmount and wallmount space. Two Total Access 850 systems can be mounted side-by-side in either 19- or 23-inch racks. Pre-configured mounting packages are available. For network access, the Total Access 850 has a single T1 or SDSL interface that is compatible with today's industry-leading DSLAMs. In addition to all of these features, the Total Access 850 is backed by an industry-leading 10-year warranty and ADTRAN's 24-hour technical support.

For more information on Total Access 850 TDM specifications, please refer to the Total Access 850 TDM data sheet.





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Modular Integrated Access Device

Product Specifications

NETWORK InterfacE (RJ-48C)

■ Line Rete: 1.544 Mbps +/- 75bps ■ Framing: D4 (SFI/ESF, AT&T 54016, ANSI T1.403 ■ Line Cede: AMI / B8ZS

■ Input Signal: 0 to -36 dB ■ Support for TDM, Frame Relay, and ATM

Support for 1DM, frame Relay, and ATM
 Echo cancellation/echo cancellation with ADPCM module (required for VoATM)
 SDSL (2B10 Conexant-based)

Line Rete: 160kbps to 2.3 Mbps
Training: Conexant Autobaud capable

■ RCU includes echo cancellation and ADPCM SHDSL (ITU G.991.2) (Future Addition)

Line Rate: 192 kbps to 2.3 Mbps
 Rate adaptive, enhanced spectral compatibility

■ RCU includes echo cancellation and ADPCM

ATM Support

■ AAL2 (voice), AAL5 (date and voice) ■ 6 PVCs (1 voice, 5 data) ■ RFC 1463 (multiprotocol over ATM)

■ PPPoA (RFC 2984) ■ QoS Support: VBR-rt (voice), UBR (data) ■ L610 PS DAM Loopback

G.165/G.168 echo cancellation, 8ms echo tail
 Voice Codes: PCM (G.711), 32k ADPCM (G.726)
 Idio channel suppression

Frame Relay Support

RFC 1490 (multiprotocol over Frame Relay)

Copper Mountain CE fragmentation support

FRE5 and FRE8 support

TR-57 Compliant Analog modules

Up to 24 analog FXS ports, 50-pin AMP

■ Up to 24 analog FXS ports, 50-pin AMP
■ Supports popular CLASS" features
■ Modes: FXS Lone Start. TB-98 signaling

Ringing: Unbalanced
Routing Capability
Ethernet: 10BaseT (RJ-45)

■ IEEE 802.3 and 802.10 (MAC Bridging)
■ IP Support TCP, RIP V1, RIP V2, UDP, ICMP, ARP, UDP Relay, SYSLDG

■ PPP Support: LCP, IPCP, BCP ■ DHCP: Server to LAN, DHCP from network (NAT) ■ RFC 1490, RFC 1483

PAP, CHAP, EAP and Radius
Multipoint to singlepoint (multipoint in the future)
PAT with DHCP
Filtering (Pattern, IP, Bridge)

Six layer password protection

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Management Options Craft Interface

■ Front or rear panel access ■ EIA-232, physical RJ-48C or DB-9 Ethernet 108 aseT Part

SNMP VI support

Full, menu-driven TELNET access

■ Software download via TFTP ■ Support for VoDSL gateway management systems

and firmware download

V.35 DTE Interface

Blate Rate: No St or No St khors (N-1 to 24)

■ Electrical and Mechanical: CCITT V.35, 34-pin ■ TOM or Frame Relay (FRES, FRE8 capable) Environment

Operating Temperature: 0° to 50°C, (32° to 113°F)
 Storage Temperature: -20 to 70°C, (-4 to 158° F)
 Relative Humidity: Up to 95%, non-condensing

Physical Dimensions: 3.5" H. 11" D. 8.5" W

Weight: 8 lbs. (fully loaded)
 Agency Approvals: UL1950, CUL, FCC Part 15 (Class A), FCC Part 68

■ DC Power: 40-50 VDC, 50W Max ■ AC Power: (order 11750/3L1): 50-130 vAC,

80Hz, 50W max

Dptional eight-hour battery backup system

Ordorina Information

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Equipment	Part #
Total Access 850 Chassis	1200375L1
PSJ	1175006L
T1 ATM RCU	4200376L1/ATM
Echo Canceller	1200384L1
Echo Canceller w/ADPCM	1200384L2
SHDSL RCU	1200381L1
SDSL RCU	1200377L1
AC Supply and Battery Charger	1175043L2
Battery Back-up System (Hinged)	1175044L2
Quad FXS Module	1175408L2

