

Total Access 850

3rd Generation

Modular T1 TDM Integrated Access Device

Physical Interfaces

- **Integrated Ports**
 - One T1/FT1 port
 - One V.35 Nx56/64 DTE Interface (Activated by BCU L2/RCU)
 - One DSX-1 Port (Activated by BCU L2/RCU)
 - DB-9 Management Port
 - 50-pin Amphenol
 - One Auto-Sensing 10/100Base-T port (Activated by RCU)

Physical Specifications

- Chassis: 1U Rackmount / Wallmount
- Dimensions: 3.5" H, 11" D, 8.5"W
- Weight: 8 lbs (Fully Loaded)
- Operating Temperature: 32°F to 113°F (0°C to 50°C)
- Mean Time Between Failure (MTBF):
 - TA 850 (Chassis Only): 4,854,369 Hrs
 - TA 850 AC w/ RCU: 220,556 Hrs
 - TA 850 DC w/ RCU: 265,112 Hrs
 - TA 850 AC w/ BCU L1: 263,020 Hrs
 - TA 850 AC w/ BCU L2: 246,306 Hrs

Performance and Design Considerations

- Voice
 - FXS Distance Limitation: 12k ft. *
 - FXS Signaling Types
 - Loop Start / Ground Start
 - Tandem (E&M)
 - Dial Pulse Originate (DPO)
 - Private Line Automatic Ringdown (PLAR)
 - FXS Ring Voltage: 90V AC RMS
 - FXO Signaling Types
 - Loop Start / Ground Start
 - Dial Pulse Terminate (DPT)
- Bank Control Unit (BCU)
 - BCU L1 Activates User Modules Only
 - BCU L2 Activates User Modules and DSX-1
 - V.35 interface only activated by V.35 module when using BCU
 - Channel Assignment is Slot and Port Specific
- Router Control Unit (RCU)
 - Activates User Modules, DSX-1, V.35, Router, and Ethernet
 - Allows manual Port and Slot assignment of DS0s

WAN Protocols

- PPP
- Frame Relay
- Bridging

Routing Protocols

- RIP (v1 and v2)

DHCP

- Client, Server, and Relay

Administration and Management

- Telnet (Menu Driven)
- SNMP v2
- Error Counts: ES, SES, UAS, % AS, % EFSEC, Alarms and Error Rates
- Reports: NI information stored for past 24 hours (15-minute increments)

Power Specifications

- DC Power: 40-56 VDC
- Optional AC Power Supply: 90-130 VAC
- Power consumption
 - 50 W max
 - 172 BTU max
- Max Current Draw : 2A

Firmware Support

- Current Version
 - BCU: Rev L38 (03/04/2004)
 - RCU: Rev A.04.04.71 (9/22/2005)
- Initial Version
 - BCU: Rev G (10/19/1999)
 - RCU: Rev A.04.04.26 (12/16/2003)

- DSX-1 Port
 - Pass Through Only for T1 CAS/PRI or Data
 - Line Length: 0 – 655 ft.
- Single Port E&M Module **
 - Supports E&M Type I, II, III and V
 - 2 or 4 Wire Mode
 - Transmit Only (TO Mode)
 - E&M Module not available when RCU is installed
- Single Port U-Brite Module **
 - Connects ISDN BRI devices over point to point T1
 - Supports ISDN BRI backhaul only in CO with external BITS clock
 - Line Length: 18k ft. *
- Single Port OCU DP Module **
 - Connects external 56/64k CSU/DSU devices over point to point T1
 - Does not support 56/64k DDS extension/backhaul from PSTN
 - DDS breakout from carrier provided T1
 - OCU DP Module not available when RCU is installed
 - Line Length: 18k ft. *

- Data
 - T1 Bandwidth: 1 T1 max

* *Distance limitations are based on 24 AWG copper cabling and ideal conditions.*

** *When used with BCU L1 or L2, single port modules only map to the DS0 channel(s) for the slot in which they are installed. Unused DS0s for that slot are not useable by any other module but may be mapped to the V.35 or DSX-1 interface as a discontinuous range.*

Agency Approvals

- UL 1950, CUL, FCC Part 15 (class A) and Part 68

Warranty

- 10 Year (Repair & Return)
- www.ADTRAN.com/Warranty

Product Includes

- All Total Access 850 units ship with the following:
 - Wallmount Brackets
 - Power Cord (7.5')
 - T1 Cable (6')
 - ADTRAN Documentation CD
 - Total Access 850 Quick Start Guide

Ordering Information

Total Access 850 Chassis	Part Number
Total Access 850 Chassis (Chassis Only)	1200375L1
Total Access 850 Dual Chassis (Chassis Only)	1200375L2
Total Access 850 AC Chassis w/ RCU	4200376L1#AC
Total Access 850 DC Chassis w/ RCU	4200376L1
Total Access 850 AC Chassis w/ BCU L1	4200373L1#AC
Total Access 850 AC Chassis w/ BCU L2	4200373L26#AC

Modules & Accessories	Part Number
Total Access 850 BCU L1	1200373L1
Total Access 850 BCU L2	1200373L2
Total Access 850 T1 TDM RCU	4203376L1#TDM
Total Access PSU	1175006L2
Total Access Quad FXO	1175407L2
Total Access Quad FXS	1175408L2
Total Access Single Port U-Brite	1180020L1
Total Access Single Port OCU DP	1180005L1
Total Access Single Port E&M/TO	1180402L1
Total Access Blank Plug	1175099L1
AC Supply & Battery Charger	1175043L3
Rackmount or Wallmount Battery Backup	1175044L1
Wallmount Battery Backup	1175044L2
19" Battery Backup Rackmount Brackets	1175047L1
23" Battery Backup Rackmount Brackets	1175048L1
19" Total Access 850 Rackmount Brackets	1175045L1
23" Total Access 850 Rackmount Brackets	1175046L1
Total Access IAD Installation Kit	1800001L1
IAD 8-Port Breakout Box	1200927L8

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