

TDU 120e

Modular T1/FT1 DSU

Front View



Rear View



Plug-In with Plug-On Module Installed



Physical Interfaces

- **Integrated Ports**
 - One T1/FT1 Network Interface (Integrated CSU/DSU)
 - One V.35 Nx56/64 DTE Interface
 - One DSX-1 Interface
 - One 10 Base T Ethernet Interface
 - Bantam Test Jacks
 - Chain In/Out Ports

Physical Specifications

- Chassis: Rackmount
- Dimensions: 1.7" H, 17" W, 11.625" D
- Weight: 7 lbs
- Operating Temperature: 32°F to 122°F (0°C to 50°C)

User Modules

- **DSX-1 Module**
 - Pass Through for T1 RBS/PRI or Data
 - DSX-1 Plug-On only passes RBS when installed on a D&I Pug-In and DS0s are mapped to/from the D&I
 - RBS Can Pass Between the NI and a Plug-In DSX-1
 - Line Length: 0 – 655 ft.
- **Quad FXS Module (Plug In Only)**
 - FXS Distance Limitation: 12k ft.
 - Message Waiting Indication Not Supported
- **Drop and Insert (D&I) Module**
 - Provides a Second T1 Interface
- **Dual FXS Module**
 - FXS Distance Limitation: 12k ft.
 - Supports Message Waiting Indication When Used With Dual FXO
 - Dual FXS Plug-On Must Be Installed On Dual FXS Plug-In
 - FXS Signaling Types
 - Loop Start / Ground Start
 - Tandem (E&M)
 - Dial Pulse Originate (DPO)
 - Private Line Automatic Ringdown (PLAR)
- **Dual FXO Module**
 - FXO Signaling Types
 - Loop Start / Ground Start
 - Dial Pulse Terminate (DPT)
- **Dual E&M/TO Module**
 - Supports E&M Type I, II, III and V
 - 2 or 4 Wire Mode
 - Transmit Only (TO Mode)
- **Dual 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
 - Asynchronous operation only
 - DDS breakout from carrier provided T1
 - Line Length: 18k ft. over 24 AWG Copper
- **Dual DSU III Module**
 - Synchronous Data Rates from 2.4 to 64 kbps
 - Asynchronous Data Rates from 2.4 to 57.6 kbps
 - Provides two EIA-232 or V.35 Interfaces (Adapter Cable Required)

User Modules (Continued)

- **Nx 56/64 V.35 Module**
 - Female Connector
 - Synchronous Data Rates from 56 kbps to 1.536 Mbps
- **Nx 56/64 530 Module**
 - Female Connector
 - Synchronous Data Rates from 56 kbps to 1.536 Mbps
- **TSU NetVanta Router Module (Plug-In Only)**
 - Supports all features of the NetVanta 3200 2nd Gen
 - Network T1 must be B8ZS/ESF
 - Single Ethernet Interface

Performance and Design Considerations

- Network Interface
 - Physical Interface: RJ-48c
 - Framing: D4 (SF)/ESF
 - Line Code: AMI/B8ZS
 - T1 Timing: Network, Secondary NI, Internal, or DTE
 - DS0 Assignment: User Selectable
- V.35 DTE Interface
 - Physical Interface: V.35 (Winchester Type 34 Pin)
 - BIT Rate: 56 Kbps to 1.536 Mbps
 - V.35 Cable not included

Performance Monitoring

- Performance Data
 - BPVs/CRCs, ES, SES, UAS, %AS, %EF SEC
 - Alarms and Error Rates
- Reports
 - NI information stored for 24 Hrs in 15 minute intervals
- PRMS
 - ANSI Performance Report
 - Messages (User Selectable)
- SNMP

Power Specifications

- AC Power: 120 VAC, 0.2 A, 9 W, 31 BTU
- AC Power: 21-26 or 40-56 VDC, 1 A, 40 W, 138 BTU

Agency Approvals

- FCC part 15 Class A, FCC Part 68
- UL 1950, CUL

Warranty

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

Product Includes

- All TDU 120e units ship with the following:
 - One 6 ft. modular 8-pin to 8-pin Cable
 - Two 15 ft. T1 Cables
 - Modular-to-Female DB-15 Adapter
 - Modular-to-Female DB-25 Adapter
 - User Manual
 - 19" Rackmount Brackets

Ordering Information

TDU 120e	Part Number
TDU 120e AC	1202156L1
TDU 120e DC	1202155L1

Modules & Accessories	Part Number
DSX-1 Module (Plug-In)	1200055L1#HS
Drop/Insert Module (Plug-In)	1200065L1
Quad FXS Plus Module (Plug-In)	1202300L1
Dual FXS Plus (MW) Module (Plug-In)	1200080L1#HS
Dual FXO Module (Plug-In)	1200103L2
Dual E&M/TO Module (Plug-In)	1200105L3
Dual OCU DP Module (Plug-In)	1200230L1
Dual DSU III Module (Plug-In)	1200127L1#HS
Nx56/64 V.35 Module (Plug-In)	1202054L1
Nx56/64 530 Module (Plug-In)	1200054L2
TSU NetVanta Router Module (Plug-In)	1202350L1
DSX-1 Module (Plug-On)	1200114L1
Dual FXS Plus (MW) Module (Plug-On)	1200082L1#HS
Dual FXO Module (Plug-On)	1200106L3
Dual E&M/TO Module (Plug-On)	1200106L3
Dual OCU DP Module (Plug-On)	1200231L1
Dual DSU III Module (Plug-On)	1200128L1
Nx56/64 V.35 Module (Plug-On)	1202053L1
V.35 Connector Adapter Cable	1200167L1
RS-232 Connector Adapter Cable	1200167L2
TSU 1XX Dual Mounting Shelf	1200084L2

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