



# T3SU 300

## Multiport T3 DSU/CSU

### Product Features

- Multiport T3 DSU/CSU
- Four user-configurable data ports
- HSSI or high-speed V.35 Interface options
- DSX-1 module for voice integration
- Bridge module for high-speed LAN-to-LAN connectivity
- Automatic or manual remote configuration
- AC and DC versions available
- Interoperable with Cisco and Juniper routers at T3-subrates
- Integrated modem for out-of-band management
- Embedded SNMP and Telnet through 10Base-T Ethernet or SLIP/PPP
- Detailed performance monitoring (local and remote)
- Detailed VT100 menu structure simplifies configuration
- Industry-leading five-year North American warranty

The ADTRAN® T3SU 300™ is a cost-effective multiport T3 DSU/CSU capable of providing users up to four DTE data ports for broadband connectivity over unchannelized T3 networks. This multiport DSU/CSU allows users to share the cost of a T3 line between multiple applications. The affordable T3SU 300 is one of many broadband access products from ADTRAN.

The T3SU 300 has one HSSI (High Speed Serial Interface) port built into the chassis. Expansion slots for up to three additional DTE interfaces accept optional field-upgradeable interface cards. The cards can be either HSSI, high-speed V.35, DSX-1, or a Ethernet Bridge module. The HSSI ports support rates from 75 kbps to 44.2 Mbps, while the high-speed V.35 ports support rates from 75 kbps to 10 Mbps; both in 75 kbps increments. Each DSX module has four DSX-1 interfaces and up to three DSX-1 modules can be supported in a chassis. The Bridge module provides four auto-sensing 10/100 Base-T Ethernet ports. Up to three modules can be supported in a single chassis. The Quad Bridge module provides LAN-to-LAN connectivity using bridging over the WAN. Additionally this module acts as a LAN switch to provide Layer 2 Ethernet switching between each of the ports on the module. The T3SU 300 offers complete configuration, diagnostic, and performance monitoring through a VT100 terminal, SNMP, or Telnet.

A series of front panel LEDs indicate the status of the network connection, along with the state of each of the four DTE ports. SNMP traps notify SNMP management platforms of alarm conditions. External alarm contacts provide connection to a visual or audible alarm.

The T3SU 300 includes VT100 terminal interfaces on both front and rear panels. Inband access to a remote unit across the T3 circuit can be performed manually by the user, or automatically by the host T3SU 300 unit. For customers needing out-of-band management, the T3SU has an integrated modem. Time-of-day automatic reconfiguration allows customers to assign or reallocate bandwidth to applications based on the time of day, ensuring that the broadband circuit is always optimized.

Embedded SNMP and Telnet are available through either the 10 Base-T Ethernet port or the SLIP/PPP port. The T3SU 300 can be configured, monitored, and diagnosed using standard SNMP network management programs, such as Hewlett Packard's OpenView™, IBM's NetView™, and Cabletron's Spectrum™. ADTRAN's ADVISION™, a GUI interface for HP OpenView, can be used to manage the T3SU 300, as well as other ADTRAN SNMP products. The T3SU 300 is also supported by ADTRAN's N-Form™ Network Management Software Suite.



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## Multiport T3 DSU/CSU

## Product Specifications

### T3SU 300 Interface Network Interface

- Clear channel, non-channelized DS3
- **Line build out:** short (0 to 50 feet) and long (50 to 450 feet)
- **Framing format:** M13 and C-bit parity
- **Line rate:** 44.736 Mbps
- **Line interface:** 75-ohm BNC coax female connectors

### DTE Interface(s)

- Single integrated HSSI port, SCSI-II 50-pin female
- Three option slots accept any combination of: HSSI Port, SCSI-II 50-pin female; High-speed V.35 port, M34 female
- All option cards are hot swappable

### LAN Interface(s)

- Supports up to three Quad (4-port) Bridge modules
- Module provides four auto-sensing 10/100 Base-T Ethernet ports
- Acts as a bridge for data transport over the WAN
- Provides Ethernet switching between each of the LAN ports

### DSX-1 Interface

- Supports up to three Quad DSX modules
- T1/FT1 rates
- RJ48C
- ANSI T1.403, AT&T TR 62411
- SF/ESF AMI/B8ZS
- Auto line build-out for 0-655 ft

### VT 100 Terminal Interface

- RJ48, EIA-232 compatible, female DB9 adapter provided
- Inband remote configuration and statistics

### DTE Rates Supported

- **HSSI Port(s):** 75 kbps to 44.2 Mbps
- **V.35 Port(s):** 75 kbps to 10 Mbps
- **Bridge Module:** 75 kbps to 44.2 Mbps
- Bandwidth selectable in 75 Kbps increments

### Clocking

- Loop (slaved to network receive clock)
- Local (private network master)

### Diagnostics

#### DS3 Network

- ANSI T1.107 compatible loopbacks
- Line, payload and line w/bert loopbacks

#### DTE Ports

- Network, network with bert loopbacks
- Local DTE, local DTE with bert loopbacks
- Remote DTE, remote DTE with bert loopbacks
- **HSSI only:** DTE device loopback

#### DSX-1 ports

- Local/remote payload

### Performance Monitoring

#### Local and Remote Network Port Statistics

- Current 15-minute, 24-hour (96 15-minute intervals) and total for 24 hours
- P-bit errored and severely errored seconds
- Severely errored framing seconds
- Line, P-bit, C-bit coding violations
- Line errored, unavailable seconds
- C-bit errored and severely errored seconds

#### DTE Ports

- Inactive based on loss of DTR and/or RTS

#### SNMP/Telnet

- Integrated 10Base-T Ethernet and SLIP/PPP (async) port
- MIB II, RFC 1213, and 1407 compliant
- ADTRAN Enterprise MIB for extended monitoring and DSU control/configuration

### Agency Approvals

- FCC Part 15, Class A, UL and CUL

### Environment

#### Operating Temperature

- 0° to 50° C, (32° to 122° F)

#### Storage Temperature

- -20° to 70° C, (-4° to 158° F)

#### Relative Humidity

- Up to 95%, non-condensing

### Physical

- **Dimensions:** 1.7" H, 11.625" D, 17" W; fits 1U 19" rack space
- **Weight:** 5 lbs
- **Power:** 120 vAC, 9W (AC version)  
24-48 vDC (DC version)

### Product Includes

- One 8-pin to 8-pin modular cable, Modular-to-female DB9 adapter, user manual

## Ordering Information

Equipment	Part #
T3SU 300 AC	1202217L2
T3SU 300 DC	1202217L4
HSSI Module	1200218L1
V.35 Module	1200219L1
Quad DSX-1 Module	1200284L1
Quad Bridge Module	1200655L1
23" Rack Kit	1200171L1



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