



### Specifications

#### Network Interface

Service Type: DDS-I or DDS-II clear channel

Operating Modes: Full duplex, point-to-point, multi-point

Line Rate: 56 and 72 kbps

Loop Range: Up to 45 dB of loss

Line Connection: RJ-48C jack, 8-pin modular

Timing Source: DDS-I: Network, Internal  
DDS-II: Network

Antistream Timer: Off, 10, 30, or 60 seconds

#### Supervisory Port

Connection: 8-pin modular (RS-232)

Data Rates: 1.2, 2.4, 9.6, and 19.2 kbps

#### SLIP Port

Connection: 8-pin modular (RS-232)

Data Rates: 1.2, 2.4, 9.6, and 19.2 kbps

#### Ethernet (option)

Connection: 8-pin modular

Network Protocol: TCP/IP-based networks

Data Rate: 10 Mbps

Compatibility: 10BASE-T, ISO/IEC 8802-3

#### Token Ring (option)

Connection: 8-pin modular (RJ-45)

Network Protocol: TCP/IP based networks

Data Rate: 4 or 16 Mbps

Compatibility: Type 3 UTP, ISO/IEC 8802-5

#### Dial Backup

Connection: 6-pin modular

Backup Service: ISDN, sync

Configuration: Information for backup unit is stored in unit and transmitted to backup unit by inband AT commands.

Dialing: Numbers programmed and stored in unit and transmitted to backup unit by inband AT commands.

Restoral: Manual or automatic restoral to leased line service

#### Diagnostics

Loopbacks: V.54 (send and receive), alternating loop (DDS-I), latching loop (DDS-II)

BERT: 511 pattern

#### Alarms

Activation: Programmable thresholds

Reporting: Front panel LEDs, call out on alarm (COA), SNMP TRAPs

#### Power

115 VAC: 116 mA, 8 W max, 27 BTU max

#### Mechanical

Housing: Plastic standalone case

Mounting: Desktop or horizontal rack

Dimensions: 12 inches (30.40 cm) wide  
2 inches (5.08 cm) high  
9 inches (22.86 cm) deep

Weight: 4 pounds (1.814 kg)

#### Environmental

Storage Temp: 32° to 122°F (0° to 50°C)

Operating Temp: -4° to 185°F (-20° to 85°C)

Humidity: 95% maximum (non-condensing)

#### Compatibility

TR 62310: November 1987

TR 62310A: December 1989 (addendum 3)

TR 41450: November 1981

Internet Standards: RFC 1157 (SNMP)  
RFC 1155 (SMI)  
RFC 1213 (MIB-II)  
RFC 1055 (SLIP)  
Enterprise TXPORT MIB  
Enterprise DDS MIB

### DDS-I Port Data Rates

#### Standard mode

Port A: Sync only at 56 kbps

Port B: Inactive

#### Proprietary, non-TDM mode

Port A: Sync at 2.4, 4.8, 9.6, 19.2, 38.4, or 52 kbps  
Async at 2.4, 4.8, 9.6, 19.2, 38.4, or 57.6 kbps

Port B: Inactive

#### Proprietary, TDM mode

Port A: Sync at 2.4, 4.8, 9.6, 19.2, or 31.2\* kbps  
Async at 2.4, 4.8, 9.6, 19.2, or 31.2\* kbps

Port B: Sync at 2.4, 4.8, 9.6, 19.2, or 31.2\* kbps  
Async at 2.4, 4.8, 9.6, 19.2, or 31.2\* kbps

*\*Only one port can be set for 31.2 kbps at a time. If Port A is set to 31.2 kbps, Port B is limited to 19.2 kbps. If Port B is set to 31.2 kbps, Port A is limited to 19.2 kbps.*

### DDS-II Port Data Rates

#### Standard mode

Port A: Sync only at 64 kbps

Port B: Inactive

#### Proprietary, non-TDM mode

Port A: Sync at 2.4, 4.8, 9.6, 19.2, 38.4, 56, 60 kbps  
Async: at 2.4, 4.8, 9.6, 19.2, 38.4, 56, 57.6 kbps

Port B: Inactive

#### Proprietary, TDM mode

Port A: Sync at 2.4, 4.8, 9.6, 19.2, or 38.4\* kbps  
Async at 2.4, 4.8, 9.6, 19.2, or 38.4\* kbps

Port B: Sync at 2.4, 4.8, 9.6, 19.2, or 38.4\* kbps  
Async at 2.4, 4.8, 9.6, 19.2, or 38.4\* kbps

*\*Only one port can be set for 38.4 kbps at a time. If Port A is set to 38.4 kbps, Port B is limited to 19.2 kbps. If Port B is set to 38.4 kbps, Port A is limited to 19.2 kbps.*

### Connections

#### SUPV/SLIP and DDS Pinout

Pin	SUPV/SLIP	DDS
1	DTR Out	Data Out (Tip)
2	RTS Out	Data Out (Ring)
3	Frame Gnd	
4	Data Out	
5	Data In	
6	Signal Gnd	
7	CTS In	Data In (Tip)
8	DCD In	Data In (Ring)

#### Port A and Port B Pinouts

ITU Ckt	Name	V.35	RS-232	EIA-530	DCE
101/AA	Frm Gnd	A	1	1	Gnd
102/AB	Sgnl Gnd	B	7	7	Gnd
103/BA	TxD	P, S	2	2, 14	In
104/BB	RxD	R, T	3	3, 16	Out
105/CA	RTS	C	4	4, 19	In
106/CB	CTS	D	5	5, 13	Out
107/CC	DSR	E	6	6, 22	Out
108/CD	DTR	H	20	20, 23	In
109/CF	DCD	F	8	8, 10	Out
114/DB	TC	Y, AA	15	12, 15	Out
115/DD	RC	V, X	17	9, 17	Out
141/LLB	LL		18	18	In
140/RLB	RL		21	21	In
142/TM	Test Mode			25	Out

# 41TDM Menutree

Main Menu	Network Configuration	Mode: <u>DDS-I, TXP-I, TXP-II, DDS-II</u> Rate: <u>56 K and 56 K</u> Timing: <u>Network and Internal</u> Circuit Assurance: <u>Off and On</u> Antistreaming Timer: <u>---, 10 seconds, 30 seconds, 60 seconds</u> Alarm Thresholds: <u>FDL, OOS, OOF, LOS, ART</u>
	DTE Configuration	Mode: <u>TDM and STD</u> Port A   <u>Format: Sync and Async</u> Port B   <u>Rate: 2.4, 4.8, 9.6, 19.2, 31.2, 38.4, 52, 56, 57.6, 60, 64 kbps</u> <u>Interface: RS-232, V.35, EIA-530</u> <u>DSR: Force T and Test&gt;Off</u> <u>DCD: Force T, Far RTS, Idle&gt;Off</u> <u>RTS: Force On and Normal</u> <u>RTS/CTS Delay: Normal and Long</u> <u>DTR Alarm: Dis and En</u> <u>V54 Loop: Dis and En</u> <u>LL Detect: Dis and En</u> <u>RL Detect: Dis and En</u>
	SNMP Configuration	Unit IP Addr* Router IP Addr* Subnet Mask* Fltr 1-6 Addr* SETs: <u>Enable and Disable</u> * <i>An underscore appears under the character to be entered or modified.</i> Read Community* Write Community* Sys Contact* Sys Name* Sys Location* Reset LAN: <u>No and Yes</u>
	Diagnostics	Loop Mode: <u>Uni and Bi</u> BERT Function   <u>BERT: On and Off</u>   <u>Reset: No and Yes</u>   <u>SynLos (display only)</u>   <u>ErrSec (display only)</u>   <u>BitErr (display only)</u>   <u>Time: HH:MM:SS (display only)</u> Sync   <u>No Test (display only)</u>   <u>In Sync (display only)</u> Local Loop: <u>Off and On</u> Far V.54 Loop: <u>Off and On</u> V.54 Loop: <u>Off and On</u> DTE-A Loop: <u>Off and On</u> DTE-B Loop <u>Off and On</u>
	Utilities	Save Configuration: <u>No and Yes</u> SUPV: <u>1.2 K, 2.4 K, 9.6 K, 19.2 K</u> SLIP: <u>1.2 K, 2.4 K, 9.6 K, 19.2 K</u> IP Port: <u>SLIP</u> Date: <u>MM/DD/YY</u> Time: <u>HH:MM:SS</u> Contrast: <u>0-15</u>
	Status Displays	Status: <u>FDL, LOS, OOS, OOF, Idle, Test</u> A: <u>RS, CS, CD, TR, SR</u> B:

## Configuration

### EXIT

Press this button on the last character to enter the value and return to the previous screen.

### SCROLL

Press this button to increment the characters (a-z, A-Z, 0-9, special characters).

### SELECT

Press this button to accept the current value and move the cursor right.

## Indicators

### TDM

This amber indicator is On when the unit is configured for TDM (Time Division Multiplexer) mode.

### TEST

This amber indicator is On when the unit transmits loop code, un-loop code, the 511 BERT pattern, or when the unit is placed in a loop mode such as line, data, V.54, etc.

### ALARM

This red indicator is On when the unit is in an active alarm condition.

### POWER

This green indicator is On when power is applied to the unit.



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