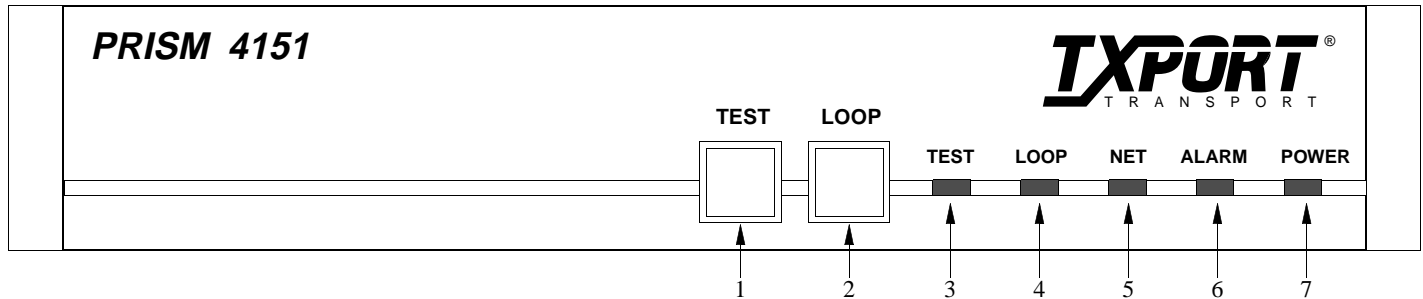


### Front Panel



### Front Panel Description

Index	Item	Function
1	TEST (button)	When this button is pushed once, the unit transmits five seconds of V.54 loop code out to the network. The indicator blinks amber during transmission of the loop code. When the V.54 loop sequence is finished, a 511 BERT pseudo random sequence is transmitted. The received pattern is compared and if it is error free, the TEST indicator remains green. If pattern errors are detected, the TEST indicator turns red for a minimum of one second. If the TEST button is pushed again, the unit transmits five seconds of V.54 loop down code and returns to normal operating mode. The TEST indicator is then turned off.
2	LOOP (button)	When this button is pressed once, the unit activates a line loopback, looping the network receive data back to the network, and looping the data from the DTE ports back to the DTE. The LOOP indicator is lit while the unit is in loop. If pushed again, the unit clears the loop and turns off the LOOP indicator.
3	TEST	This 3-color LED is green when BERT is on with no errors. It flashes amber when the unit is transmitting loop or unloopcode. It is red when the BERT is on and is receiving errors or is out of pattern sync.
4	LOOP	This amber LED illuminates when the unit is in any loop condition.
5	NET	This 3-color LED illuminates green when the unit is in frame sync. It is red when the unit is out of sync and/or Loss of Signal.
6	ALARM	This red LED illuminates when the unit is in an active alarm condition.
7	POWER	This green LED illuminates when power is applied to the unit.

### Specifications

#### Network Interface

Line Rate: 56 and 72 kbps  
 Input Signal: 0 to -45 dB ALBO  
 Connection: RJ-48C jack  
 Output Signal: 3.32 V (±10%) base-peak into 135 Ω with protection per 62310  
 Transient Voltage: 1000 V protection, fused in/out  
 Jitter Control: per 62310  
 Timing Source: Internal, recovered line clock, external DTE

#### Equipment Interface

Data Rate: Synchronous 56K DDS I, 64K DDS II  
 Antistream Timer: Off, 10, 30, or 60 seconds  
 DTE Clocking: Internal or External  
 DTE Connection: 34-pin V.35 (CCITT)

#### Management Interfaces

**Supervisory Port**  
 Connection: 8-pin modular (RS-232)

Data Rates: 19.2 kbps  
**SLIP Port**  
 Connection: 8-pin modular (RS-232)  
 Data Rates: 1.2, 2.4, 9.6, and 19.2 kbps  
**SNMP/Telnet Ethernet** (option)  
 Connection: 8-pin modular (RJ-45)  
 Network Protocol: TCP/IP based networks  
 Data Rate: 10 Mbps  
 Compatibility: 10BASE-T, ISO.IEC 8802-3  
**SNMP/TELNET/Token Ring**  
 Connection: 8-pin modular (RJ-45)  
 Network Protocol: TCP/IP based networks  
 Data Rate: 16 Mbps  
 Compatibility: Type 3 UTP, ISO/IEC 8802-5  
**Diagnostics**  
 Loopbacks: V.54 (receive and send), alternating loop, latching loop  
 BERT: 511 pattern

#### Alarms

Activation: Programmable thresholds  
 Reporting: Front panel LEDs, call on alarm (COA), SNMP traps

#### Power

115 VAC: 100 mA, 12 W max, 30 BTU max

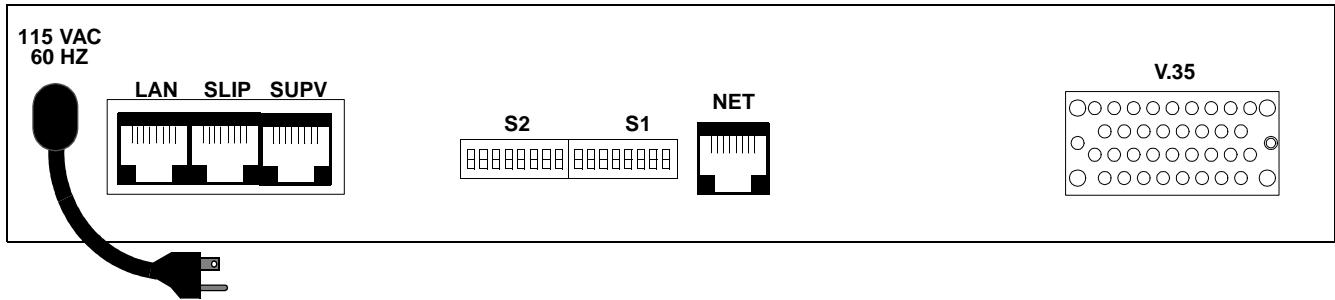
#### Mechanical

Mounting: Desktop or rack  
 Dimensions: 12 inches (30.48 cm) wide  
 2 inches (5.08 cm) high  
 9 inches (22.86 cm) deep  
 Weight: 4 pounds (1.814 kg)

#### Environmental

Operating Temp: 32° to 122°F (0° to 50°C)  
 Storage Temp: -4° to 185°F (-20° to 85°C)  
 Humidity: 95% maximum, non-condensing

## Rear Panel



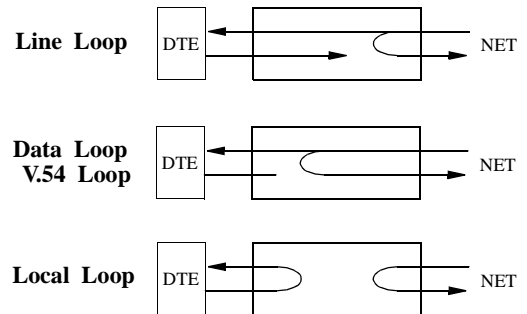
### Switch S1

- S1-1:** Antistream timer set to 30 seconds.  
Dn: Disable Up: Enable
- S1-2:** Activates the V.54 loop/unloop.  
Dn: Enable Up: Disable
- S1-3:** Activates the circuit assurance.  
Dn: Disable Up: Enable
- S1-4:** Establishes the loop mode.  
Dn: Bidir Up: Unidir
- S1-5:** Not Used
- S1-6:** Not Used
- S1-7:** Not Used
- S1-8:** Not Used

### Switch S2

- S2-1:** Boot mode.  
Dn - Switches Up - Saved Configuration
  - S2-2:** DDS mode as DDS I (56 kbps) or DDS II (64 kbps).  
Dn - 64 kbps Up - 56 kbps
- | S2-3      | S2-4      | Timing Source  |
|-----------|-----------|----------------|
| <u>Dn</u> | <u>Dn</u> | <u>Network</u> |
| Dn        | Up        | Internl        |
| Up        | Dn        | DTEI           |
| Up        | Up        | Not Used       |
- S2-5:** CTS Delay.  
Dn: Short Up: Long
  - S2-6:** RTS, CTS, DCD Handshake.  
Dn: Force True Up: Normal
  - S2-7:** Remote/Local loops on the DTE interface.  
Dn: Disable Up: Enable
  - S2-8:** DTE Alarm.  
Dn: Disable Up: Enable

### Loops



Factory defaults for all switch settings are shown underlined.

## Data Port Pinouts

### Rear Panel Pinouts

Pin	LAN Ethernet	LAN Token Ring	SUPV/SLIP Terminal	SUPV/SLIP Modem	Network
1	Data Out		DCD Out	DTR Out	Data Out
2	Data Out		CTS Out	RTS Out	Data Out
3	Data In	Data Out	Frame Gnd	Frame Gnd	
4		Data In	Data Out	Data Out	
5		Data In	Data In	Data In	
6	Data In	Data Out	Signal Gnd	Signal Gnd	
7			RTS In	CTS In	Data In
8			DTR In	DCD In	Data In

Common Name	V.35 34-pin
Frame Ground	A
Transmit Data	P, S
Receive Data	R, T
Request to Send	C
Clear to Send	D
Data Set Ready	E
Signal Ground	B
Data Carrier Detect	F
Receive Clock	V, X
Terminal Timing	U, W
Transmit Clock	Y, AA
Local Loopback	J
Data Term Ready	H
Remote Loopback	BB



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# Addendum

**Document:** PRISM 4151 Reference Manual and Configuration Guide

**Date:** June 12, 1998

The power rating, as presented on pages 1-2 of the manual and in the Specifications section of the configuration guide, has been revised as follows.

**Power AC:** 115 VAC, 140 mA, 8 W maximum, 27 BTU maximum