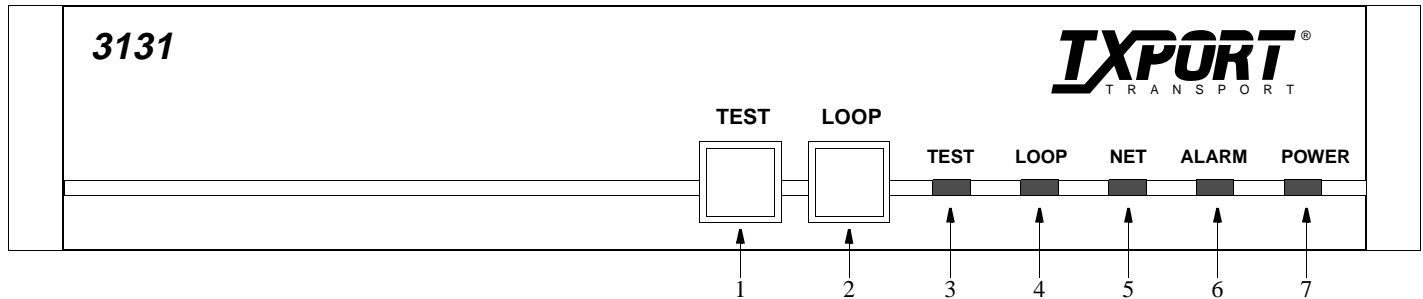


Front Panel



Front Panel Description

Index	Item	Function
1	TEST	When this button is pushed once, the unit transmits five seconds of inband loop code out to the network (either LLB or V.54 depending on Switch S1 -7). The indicator blinks green during transmission of the loop code. If Switch S2-8 is set to Clear Loop, the data from the DTE is passed to the network and data from the network is passed to the DTE. The TEST indicator is solid green in this mode. If Switch S2-8 is set to BERT, the test pattern last selected is transmitted toward the network. 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. The data ports are looped back toward the DTE during the test. If the TEST button is pushed again, the unit transmits 5 seconds of inband loop down code and returns to normal operating mode. The TEST indicator is then turned off.
2	LOOP	When this momentary pushbutton 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 flashes green when the unit is transmitting loop code. It is green continuously when BERT is on with no errors or the unit is in a clear test. It is red when the BERT is on and is receiving errors.
4	LOOP	This amber LED light continuously when the unit is in a loop mode.
5	NET	This 3-color LED is green when the unit is in frame sync. It is amber when the unit is receiving a yellow alarm from the far end. It is red when the unit is out of frame sync and/or LOS.
6	ALARM	This red LED lights continuously when the unit is in an active alarm condition. It flashes if the switch configuration is invalid.
7	POWER	This green LED lights continuously when power is applied to the unit.

Specifications

Network Interface

Line Rate:	1.544 Mb/s (\pm 50 ppm)
Line Framing:	D4 or ESF
Line Code:	AMI or B8ZS
Input Signal:	0 to -27 dB ALBO
Connection:	RJ-48C jack, 100 W (\pm 5%)
Output Signal:	3.0 V (\pm 10%) base-peak into 100 Ω with protection
Line Build Out:	0, -7.5, -15, -22.5 dB attenuation
Transient Voltage:	1000 V protection, fused in/out
Jitter Control:	Per TR 62411 and T1.403
Timing Source:	Internal, recovered line clock, external DTE, T1 DTE
Ones Density:	B8ZS, N x 56 bit stuffing, alternate fill; TR62411

Equipment Interface

DTE Port:	V.35, 34-pin
Data Rate:	Synchronous, N x 56 kps or N x 64 kbps (where N = 1 to 24)
Clocking:	Internal, External, Oversample
Data Invert:	Independent selection each port

Management Interfaces

Supervisory Port	
Connection:	8-pin modular (RS-232)
Data Rates:	1.2, 2.4, 9.6, and 19.2 kbps
Diagnostics	
Performance:	Monitoring per TR54016, T1.403
Network Loops:	Line or payload loopback
Fractional Loop:	Responds to inband V.54 loop
DTE Port Loops:	Bidirectional loop to DTE or Net
BERT:	511 and clear test patterns toward network or DTE ports
Alarms	
Activation:	Programmable thresholds
Reporting:	Front panel LEDs, Call On Alarm (COA)

Power

115 VAC:	0.12 A, 12 W max, 41 BTU max
----------	------------------------------

Mechanical

Mounting:	Desktop or horizontal rack
-----------	----------------------------

Dimensions:	12" (30.48 cm) wide, 1.75" (53.34 cm) high, 9" (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)

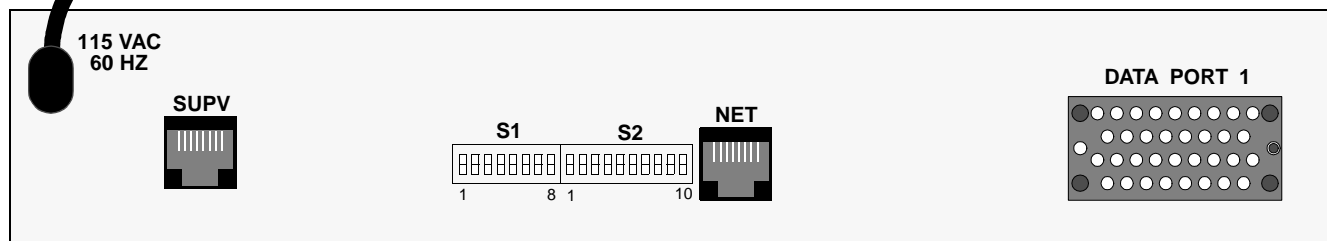
Standards

TR 62411:	December 1990
TR 54016:	September 1989
ANSI T1.403:	1989
TR 54019A:	April 1988

Industry Listings

FCC Compliance:	Part 15, Subpart B, Class A
FCC Part 68 Cert:	FXKUSA-22083-DE-N
NRTL:	1459, 2 nd Edition
IC/CSO3 Cert:	1653 6531 A
CSA Certified:	LR 62298 (22.5 NO 22.5-M90)

Rear Panel



Switch S1

S1-1: Set the network line framing.
Dn - ESF Up - D4

S1-2: Sets the network line coding.
Dn - B8ZS Up - AMI

S1-3	S1-4	Network LBO
<u>Dn</u>	<u>Dn</u>	<u>0 dB</u>
Up	Dn	-7.5 dB
Dn	Up	-15.0 dB
Up	Up	-22.5 dB
S1-5	S1-6	Timing Source
<u>Dn</u>	<u>Dn</u>	<u>Network</u>
Up	Dn	Internal
Dn	Up	Port 1 EXC
Up	Up	N/A

S1-7: Test button loop code.
Dn: LLB code Up: V.54 code

S1-8: Test button operational mode.
Dn: BERT Up: Clear loop

Switch S2

S2-1 through S1-5: Determine the data port bit rate. Refer to the Data Port Bit Rates chart for configuration settings.

S2-6: Sets the channel assignment mode.
Dn: Contiguous Up: Alternate

S2-7: Sets the data port rate multiplier.
Dn: N x 64 k Up: N x 56 k

S2-8: Sets the power-up mode.
Dn: Switches Up: RAM

S2-9	S2-10	SUPV Port Rate
Up	Up	1.2 kbps
Dn	Up	2.4 kbps
<u>Dn</u>	<u>Dn</u>	<u>9.6 kbps</u>
Up	Dn	19.2 kbps

Factory defaults for all switch settings are shown underlined.

Switch S2-9 and S2-10 must be set before powering the unit.

Data Port Bit Rates

# of DSOs	S2-7		S2-1	S2-2	S2-3	S2-4	S2-5
	Up	Dn					
Disable	Disable		Dn	Dn	Dn	Dn	Dn
1	56 kb/s	64 kb/s	Up	Dn	Dn	Dn	Dn
2	112	128	Dn	Up	Dn	Dn	Dn
3	168	192	Up	Up	Dn	Dn	Dn
4	224	256	Dn	Dn	Up	Dn	Dn
5	280	320	Up	Dn	Up	Dn	Dn
6	336	384	Dn	Up	Up	Dn	Dn
7	392	448	Up	Up	Up	Dn	Dn
8	448	512	Dn	Dn	Dn	Up	Dn
9	504	576	Up	Dn	Dn	Up	Dn
10	560	640	Dn	Up	Dn	Up	Dn
11	616	704	Up	Up	Dn	Up	Dn
12	672	768	Dn	Dn	Up	Up	Dn
13	728	832	Up	Dn	Up	Up	Dn
14	784	896	Dn	Up	Up	Up	Dn
15	840	960	Up	Up	Up	Up	Dn
16	896	1024	Dn	Dn	Dn	Dn	Up
17	952	1088	Up	Dn	Dn	Dn	Up
18	1008	1152	Dn	Up	Dn	Dn	Up
19	1064	1216	Up	Up	Dn	Dn	Up
20	1120	1280	Dn	Dn	Up	Dn	Up
21	1176	1344	Up	Dn	Up	Dn	Up
22	1232	1408	Dn	Up	Up	Dn	Up
23	1288	1472	Up	Up	Up	Dn	Up
24	1344	1536	Dn	Dn	Dn	Up	Up

Rear Panel Pinouts

Pin	SUPV Terminal	SUPV Modem	Network
1	DCD Out	DTR Out	Data In
2	CTS Out	RTS Out	Data In
3	Frame Gnd	Frame Gnd	Not Used
4	Data Out	Data Out	Data Out
5	Data In	Data In	Data Out
6	Signal Gnd	Signal Gnd	Not Used
7	RTS In	CTS In	Chassis Gnd
8	DTR In	DCD In	Chassis Gnd

Data Port Pinouts

Common Name	DB25 25-pin	V.35 34-pin
Frame Ground	1	A
Signal Ground	7	B
Transmit Data	2, 14	P, S
Receive Data	3, 16	R, T
Request to Send	4, 19	C
Clear to Send	5, 13	D
Data Set Ready	6, 22	E
Data Term Ready	20, 23	H
Data Carrier Detect	8, 10	F
Transmit Clock	15, 12	Y, AA
Receive Clock	17, 9	V, X
Terminal Timing	24, 11	U, W



TxPORT
127 Jetplex Circle
Madison, Alabama 35758
Customer Service
800-926-0085, ext. 2227
info@txport.com

Technical Support
(8 a.m. to 5 p.m. Central Time)
Toll Free: 888-4TxPORT
800-285-2755 (and after-hours emergencies)
Locally: 205-772-3770
e-mail: support@txport.com

Addendum

Document: PRISM 3131 Reference Manual and Configuration Guide

Date: June 12, 1998

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

AC: 115 VAC, 120 mA, 7 W maximum, 23 BTU maximum

Industry Listings The industry listings, as presented on page 1-2 of the manual and in the Specifications section of the configuration guide, have been revised as follows.

FCC Compliance: Part 15 Subpart B, Class A, Part 68

U.S. Safety: 1950 3rd Edition

Canada Safety: CSA C22.2 No. 950-95

Industry Canada: CS03

FCC Requirements The **Notice to Users of 1.544 Mbps Service** on page 1-2 of the manual has been removed.

SOC The Service Order Code (SOC) on page 1-2 has been revised to 6.0F.