

Appendix A Specifications

MECHANICAL

Dimensions

Height 9.70 inches

Width 2.92 inches

Depth 10.84 inches

Weight

4 lbs.

ENVIRONMENTAL

Operating Temperature

0 to 50° C

Relative Humidity

0 to 95% noncondensing

T1 INTERFACE CARD

The T1 interface card is compatible with T1 network requirements as described by AT&T Publication 62411 (High Capacity Terrestrial Digital Service) and other T1 services. . The T1 interface card provides the proper termination for the T1 line at the user's location to comply with telephone requirements and FCC Rules Part 68.

Specifications

T1 Network Interface

Line Rate

1.544 Mbps \pm 75 bps

Line Code

Bipolar RZ AMI or B8ZS

Input Level

+3.5 -28 dB equivalent line loss

Output Level

2.7 to 3.3 V peak (0 dB LBO)

Line Build-Out

Selectable 0, 7.5, 15 dB, and DSX levels

Impedance

100 ohms nominal, input and output

Surge Protection

1000 V per AT&T pub 43601

Jitter Tolerance

Per AT&T pub 62411

Connector

RJ48C 8-pin modular jack

T1 PROTOCOL

Framing

Superframe (D4) or Extended Superframe

ESF Facility Data Link

Per AT&T pub 54016 or ANSI spec T1.403-1989

Minimum Output Ones Density

None - determined by channel cards

B7SUB - one pulse every 8 bits 12.5%

B8ZS - 8 consecutive zeros replaced with AMI violation pattern

Inband Loop Up Code

'10000' per AT&T pub 62411

Inband Loop Down Code

'100' per AT&T pub 62411

Inband Loop Detection

5 seconds per AT&T pub 62411

QRSS Test Signal

Standard 1,048,575 bit sequence strings of more than 14 consecutive zeros suppressed per AT&T pub 62411

DTE INTERFACE

Data Port Configuration

V.35, RS-530/449, RS-232, or DSX-1

Data Rates

n x 56 kbps or n x 64 kbps

(n=1 to 24 DS0 time slots)

=from 56 kbps to 1.536 Mbps

Electrical

V.35, RS-530/449, RS-232, or DSX-1

Connector

25-pin D-type female, adapters available

CONFIGURATION MANAGEMENT CARD

Network Interface

IEEE STD 802.3 10BASE T

MGT Port Rates

19200, 9600, 4800, 2400 bps

POWER REQUIREMENTS

Voltage:

115 Vac $\pm 10\%$; 50-60 Hz

230 Vac $\pm 10\%$; 50-60 Hz

Power Consumption:

5 watts