

Appendix A Specifications

Size

Width	7.0 inches (17.78 cm)
Depth	10.5 inches (26.67 cm)
Height	2.25 inches (5.72 cm)
Weight	2 lbs. 13 oz. (1.28 kg)
Front Panel	32 ASCII character LCD

Environmental Conditions

Temperature:

Operation +32° F to +122° F
(0° C to +50° C)

Storage -40° F to +158° F
(-40° C to +70° C)

Humidity: 0 to 95% relative humidity: noncondensing

Power Requirements

The modem can be ordered for operation with one of three power input options.

Voltage: 115 Vac $\pm 10\%$; 50-60 Hz,
230 Vac $\pm 10\%$; 50-60 Hz, or
12 to 60 Vdc

Power consumption: 14 watts

Telephone Line

Balanced 600 ohm type 3002 or equivalent 16 dB nominal loss,
frequency translation up to ± 10 Hz

Digital Interface

Conforms to EIA-232D and CCITT V.24

Modem Data Rates

300, 1200, 2400, 4800, 7200, 9600, 12000, 14400, 16800, 19200, 21600, 24000, 26400, and 28800 bps.

Fax Rates

14400, 12000, 9600, 7200, 4800, 2400, 1200, and 300 bps

Modulations

V.34, V.32, V.22, V.21, V.27 bis, V.29, Bell 103, V.17, V.33, V.22 bis, V.32 bis

Fax Modulation

Modulation	Speed
V.21 channel 2	300 bps
V.27 ter	2400 bps
V.27 ter	4800 bps
V.29	7200 bps
V.17	7200 bps
V.17	7200 bps with short train
V.29	9600 bps
V.17	9600 bps
V.17	9600 bps with short train
V.17	12000 bps
V.17	12000 bps with short train
V.17	14400 bps
V.17	14400 bps with short train

Internal Transmit Clock Frequency

Selected bit rate \pm 0.01%

External Transmit Clock Frequency

Selected bit rate \pm 0.01%

Transmit Output Level

0 to -30 dBm, selectable; PSTN operation is programmable or permissive.

Operation

4-wire, full-duplex, leased (private) line;
2-wire, full-duplex, leased (private) line or PSTN

Carrier Detect Level

Dynamic to -43 dBm

Telco Connection

8-pin modular jack, dial and private lines

Testing

511 PN pattern (per V.52) V.54 remote loopback control

Line Equalization

Automatic adaptive

RTS/CTS Delay

From 0 ± 2 ms to 90 ± 2 ms, user selectable in 10 ms increments
(The default is 0 ms.)

Link Layer Protocols

V.42/V.42 bis error correction and compression protocol
MNP levels 2-5 error correction and compression protocol

