

LPM-33

LOW POWER MODEM

SPECIFICATIONS

Physical

Size

Length: 8.6"

Width: 5.3"

Height: 1.9"

Weight

20 oz.

Environmental

Storage

Temperature: -40°C to 85°C

Humidity: 0 to 95%, non-condensing

Operating

Temperature: -40°C to 72°C

Humidity: 0 to 95%, non-condensing

Mounting

Standard: shelf or desk top

Optional: mounting brackets available upon request

Construction

Housing

Fully enclosed, anodized aluminum

Electrical

Components mounted on internal PCB

Power

Voltage

5.0 to 36 Vdc, 10 to 15 Vac

Consumption

Standby: .5 mA at 12 Vdc (maximum)

Active: 85 mA at 12 Vdc (typical)

Operation

Speed

Baud rates to 33,600

Type

Auto-answer and originate

Modem Standards

CCITT

V.34, V.32 bis, V.32, V.22 bis, V.22, V.21

Bell

103, 212A

Data Compression

MNP 5 and V.42 bis

Error Correction

MNP 2-4 and LAP-M

Control Commands

Hayes AT command set; additional AT commands for data compression, error correction, cellular operation

Profiles

2, set at factory, user definable, stored in non-volatile E²PROM

Mode Control

Standby

Awaits ringing or DTE data

Standby to Active

Within 6 seconds of ringing or 200 msec of DTE data

Answer

After transition to active mode answers call in accordance with S0 register setting

Disconnect

Loss of carrier, DTR drop or on-hook command

Active to Standby

Active Connection: 10 seconds after loss of carrier

No Connection: 60 seconds after last ring or 120 seconds after last DTE data

DCE - DTE Interface

Type: RS-232

Speed: auto-detects with AT command, up to 115,200 Baud

Signaling: N-8-1

Controls

Internal

Jumper JP1: disables standby operation if jumper is on

External

None

LED Indicators

Standby: green

Ringing: red

Send Data: red

Receive Data: red

Carrier Detect: red

Off Hook: red

Connectors

Power

Standard 3.5 mm jack, center positive

To DTE

DB-25 female, configured as DCE

Pin 1: Protective Ground

Pin 2: Send Data

Pin 3: Receive Data

Pin 4: Request to Send

Pin 5: Clear to Send

Pin 6: Data Set Ready

Pin 7: Signal Ground

Pin 8: Carrier Detect

Pin 20: Data Terminal Ready

Pin 22: Ring In

Telephone Line

Dual female RJ-11, wired in parallel

Line Protection

Internal gas tube arrester, 230 Vdc, tip and ring to ground

Note: a telco approved external suppressor should be used for added protection

Regulatory

Designed to meet applicable FCC standards