## Technical Data

LDM-1 Specifications


## Line Requirements

Type: 4-wire
Gauge: 19 to 24 AWG

## Receiver

Dynamic Range -40 dBm to 0 dBm
Termination Impedance Enabled: 150 Ohm
Disabled: $>40 \mathrm{KOhm}$ Isolation
Fully isolated from power and DTE interface

## Transmitter

Output Level
approximately 0 dBm into 150 Ohm, . $4 \mathrm{Vp}-\mathrm{p}$
Source Impedance
Enabled: 1500 hm Disabled: >40KOhm
Carrier Detection
If enabled, checks for absence of signal on Xmt channel before asserting CTS
Isolation
Fully isolated from power and DTE interface

## LDM-16 Specifications

```
Physical
    Length: 19.0"
    Width: 10.5"
    Height: 5.4"
    Weight: 20lbs. with 8 LDM-1
    plug-in PCBs
Physical
Length: 19.0"
Width: \(10.5^{\prime \prime}\)
Weight: 20 lbs . with 8 LDM-1
plug-in PCBs
```

Mounting
Mounts into std. 19" equipment rack

## Power

Voltage: $120 \mathrm{Vac}, 60 \mathrm{~Hz}$
Consumption: 40 W with 8 LDM-1 plug-in PCBs

MICRO-AIDE reserves the right to make changes, at its sole discretion, to any specification listed herein.

## Transmission Range Specifications

The specifications listed in Table 5 apply to both point-to-point and multidrop network configurations limited to no more than eight modems. The transmission distances listed refer to the cable length measured from the nearend (master) modem to far-end (slave) modem.

| Baud Rate <br> (bps) | 19AWG | 22 AWG <br> (miles) | 24 AWG |
| :---: | :---: | :---: | :---: |
| 2400 | 30 | 16 | 12 |
| 4800 | 25 | 13 | 10 |
| 9600 | 20 | 11 | 8 |
| 19,200 | 13 | 8 | 6 |

Table 5 - Cable Length vs. Baud Rate and Cable Diameter

## Technical Data - Recommended Equalizations Settings

## Recommended Equalizations Settings

The Equalization settings listed in Table 6 are for approximation purposes only. The optimum setting will vary from network to network. The transmission distances listed refer to the cable length measured from the near-end (master) modem to far-end (slave) modem.

| Baud Rate | 19AWG |  |  |  |  | 22AWG |  |  |  |  | 24AWG |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 6 | 13 | 19 | 25+ | 0 | 3 | 6 | 10 | 13+ | 0 | 2 | 4 | 6 | 8+ |
| 2400 | 1 | 2 | 2 | 3 | 4 | 1 | 2 | 2 | 3 | 4 | 1 | 2 | 2 | 3 | 4 |
| 4800 | 1 | 2 | 2 | 3 | 4 | 1 | 2 | 2 | 3 | 4 | 1 | 2 | 2 | 3 | 4 |
| 9600 | 1 | 2 | 2 | 4 | - | 1 | 2 | 2 | 4 | - | 1 | 2 | 2 | 4 | 4 |
| 19,000 | 1 | 2 | 2 | - | - | 1 | 2 | 2 | - | - | 1 | 2 | 2 | 4 | - |

Table 6 - Equalization Settings vs. Cable Length and Baud Rates

## DB-25 Connector Wiring

The LDM-1 includes a DB-25 female connector. It provides the RS-232 interface to the DTE. The connector is wired as illustrated in Figure 7.


Figure 7 - DB-25 Pin Assignments

