Modems designed for use in office environments should not be used along the highway. Highway ITS applications are characterized by their unique power and temperature requirements.

The LPM is engineered to meet the special requirements associated with roadside applications.

MICRO-AIDE

LPM
LOW POWER MODEM

Features

▶ Requires less than .5 mA of current at 12 Vdc while in Standby Mode

▶ Active Mode is automatic when ringing voltage is applied

▶ Ideal for use in solar power applications

▶ Operating temperature range of -40°C to +72°C

▶ Speeds of 300 to 33.6K Baud

▶ Supports all commonly used data compression and error correction standards

▶ New compact size

▶ Housed in aluminum case

▶ Includes standard DTE interface

▶ Shelf or backboard mountable

▶ Comes with MICRO-AIDE's Modem Configuration Application for easy profile preparation

Physical
Size
Length: 6.6"
Width: 4.8"
Height: 1.3"
Weight: 10 oz.

Environmental
Storage
Temperature: -50°C to +85°C
Humidity: 0% to 95%, non-condensing
Operating
Temperature: -40°C to +72°C
Humidity: 0% to 95%, non-condensing

Mounting
Shelf or desktop

Construction
Chassis
Fully enclosed, anodized aluminum, externally accessible connectors, LEDs and switches
Electrical
Single PCB with conformal coating, mounted inside chassis

Power
Voltage
DC: 5 to 36
AC: 10 to 15 (optional AC power adapter available)
Consumption
Standby Mode: maximum .5 mA at 12 Vdc
Active Mode: typical 85 mA at 12 Vdc

Operation
Standby Mode
Low power while awaiting ringing or DTE data
Standby to Active Transition Delays
Within 6 sec 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 Transition Delays
Active Connection: 10 sec after loss of carrier
No Connection: 60 sec after last ring or 120 sec after last DTE data

Controls
DIP switch enables or disables Standby Mode

Connectors
Power
Standard 3.5 mm jack, center positive
DTE
Type: DB-25, female , configured as DCE
Signals: RD, SD, CTS, RTS, DSR, DTR, DCD, RI, Signal Ground
Phone
Dual RJ-11, wired in parallel

LED Indicators
Green: flashes while in Standby Mode, off while in Active Mode
Red: Qty. 5, Receive Data, Transmit Data, Off Hook, Ring In, Carrier Detect

DTE Interface
Configured as DCE with Auto-Baud detection (fixed Baud rate available)

Line Protection
Internal MOV device used across tip and ring
A telco approved external suppressor should be used for added protection

Regulatory
Designed to meet applicable FCC standards

Modem Standards
Speed: 300 to 33.6K Baud, V.21, V.22, V.29 Fast Connect
Data Compression: V.42bis, V.44
Error Correction: V.42, MNP 2-5

Control Commands
AT command compatibility
Supports most standard Hayes commands
Includes additional AT commands for control of other modem features
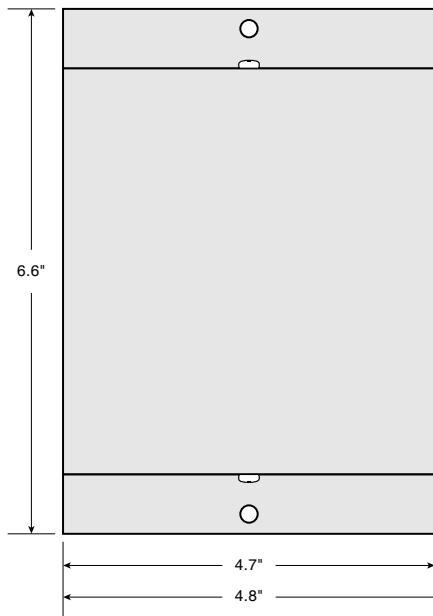
Profile
Support for one profile
Defined by the sequence of various AT commands
Active profile is volatile until saved to EEPROM
Use MICRO-AIDE's ModemConfig App to create and save the profile

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

DIMENSIONAL DRAWING

6.6"

4.7"

4.8"

1.3"

MICRO-AIDE

LPM
LOW POWER MODEM

Mounting Holes (2)
Dia: .219"   Spacing: 6.134" apart

Low Pwr   RI   RD   OH   LPM
MICRO-AIDE   Active ⌐ Stby   SD   CD   Low Power Modem

To DTE   5-36Vdc 12Vac   Phone Line