

410 - 480 MHz Licensed Narrowband Wireless Modem

The L400 is a licensed, narrowband modem which operates in the 410 - 480 MHz frequency range. It is capable of long distance communication over 60 miles (100km). L400 radios offer the most robust communication over the longest distances.

410 - 480 MHz

Up to 5 Watts

Extended Range

Industrial Temperature

Low Latency

2x RS232/485/422 Ports



Enclosed Option

Features

- User-selectable frequency from within wide operating band
- Communicates with virtually all PLCs, RTUs, and serial devices
- Industrial Grade - robust 19.2kbps wireless link rate
- Supports Point-to-Point, Point-to-Multipoint, Store and Forward Repeater
- Programmable transmit power: 100mW - 5W
- Programmable bandwidth: 6.25, 12.5, or 25kHz
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port - transparent remote diagnostics and online network control



OEM Option

L400

Specifications

| | | | |
|---------------------------|--------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Frequency | 410 - 480 MHz* * Band use may be limited by country or operating zone/regulatory body | Core Voltage | OEM 4.0 - 5.5VDC Enclosed 7 - 30VDC |
| Occupied Bandwidth | 6.25, 12.5kHz, or 25kHz | Connectors: | OEM Antenna MCX Data 40 Pin OEM Header Enclosed Antenna N Female Data Female DB9 Diagnostic RJ-45 |
| Modulation Type | GMSK | Environmental | -22°F to 185°F (-30°C to +85°C) 5-95% humidity, noncondensing |
| Error Detection | 32 bits of CRC, ARQ | Weight | OEM Approx. 90 grams Enclosed Approx. 420 grams |
| Encryption | Optional (see -AES option) | Dimensions | OEM Approx. 3.5" x 2.1" x .7" (89mm x 53.4mm x 17.8mm) Enclosed Approx. 4.755" x 3.75" x 1.75" (111mm x 95.3mm x 44.5mm) |
| Range | 60+ miles (100+ km) (dependant on link rate and line of sight) | Enclosure | Extruded Aluminum |
| Sensitivity | -118dBm @ 2400bps link rate -117dBm @ 4800bps link rate -116dBm @ 9600bps link rate | Approvals | FCC Part 90 IC RSS119 CE RoHS |
| Output Power | 100mW - 5W | Order Options | |
| Serial Interface | RS232/RS485/RS422 | -AES | 128 BIT AES Encryption (Requires Export Permit outside Canada & USA) |
| Signals Interface | RxD1, TxD1, RTS, CTS, DCD, DSR, DTR, RxD2, TxD2, RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode | -CE | CE Certification |
| Serial Baud Rate | 300 bps to 230.4 kbps | | |
| Link Rate | 1200 bps to 19.2 kbps | | |
| Operating Modes | Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Adhoc, Transparent | | |
| Diagnostics | Battery Voltage, Temperature, RSSI, and remote diagnostics | | |
| Rejection | Excellent strong signal interference & rejection characteristics | | |

Contact Information

Microhard Systems Inc.
150 Country Hills Landing N.W.
Calgary, AB, Canada T3K 5P3

Email: info@microhardcorp.com
Tel: (403) 248-0028
Fax: (403) 248-2762

Copyright 2022 Microhard Systems Inc.
Specifications subject to change without notice.

