

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		
Error Detection	32 bits of CRC, ARQ		
Encryption	Optional (see -AES option)		
Range	60+ miles (100+ km) (dependant on link rate and line of sight)	Environmental	-22°F to 185°F (-30°C to +85°C) 5-95% humidity, noncondensing
Sensitivity	-118dBm @ 2400bps link rate -117dBm @ 4800bps link rate -116dBm @ 9600bps link rate	Weight	OEM Approx. 90 grams Enclosed Approx. 420 grams
Output Power	100mW - 5W	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)
Serial Interface	RS232/RS485/RS422		
Signals Interface	RxD1, TxD1, RTS, CTS, DCD, DSR, DTR, RxD2, TxD2, RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode	Enclosure	Extruded Aluminum
Serial Baud Rate	300 bps to 230.4 kbps	Approvals	FCC Part 90 IC RSS119 CE RoHS
Link Rate	1200 bps to 19.2 kbps	Order Options	
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Adhoc, Transparent	-C1D2	Class 1 Div 2 (for use in hazardous environments)
Diagnostics	Battery Voltage, Temperature, RSSI, and remote diagnostics	-AES	128 BIT AES Encryption (Requires Export Permit outside Canada & USA)
Rejection	Excellent strong signal interference & rejection characteristics	-CE	CE Certification

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 2015 Microhard Systems Inc.
Specifications subject to change without notice.

