

L400-ENC



400-480 MHz Licensed Narrowband Wireless Modem

The L Series is a licensed, narrowband modem which is configured to operate in the 400-480 MHz frequency range. It is capable of long distance communication over 60 miles (100km). L Series radios offer the most robust communication over the longest distances.

Applications

- SCADA (PLCs, MODBUS), Telemetry
- Commercial Communications
- GPS Vehicle Data/Tracking, DGPS
- Electric, Oil & Gas Sensors/Detection
- Robotics
- Display Signs
- Transparent Low Latency Communication

Microhard Systems Inc.'s proprietary radio technology excels in the most demanding RF and physical environments.



The L Series features robust, low latency, secure data communications. The L Series has full serial and separate diagnostics port for real-time diagnostics without interrupting data communications. The L Series offers excellent noise figure and superior interference rejection.

Features of the L Series

- 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



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Specifications



Frequency	406.1 - 480 MHz* * Band use may be limited by country or operating zone/regulatory body	Connectors	Antenna Data Diagnostic	N Female Female DE9 Locking screw connector RJ-45
Occupied Bandwidth	6.25, 12.5, or 25kHz	Environmental		-22°F to 185°F (-30°C to +85°C) 5-95% humidity, noncondensing
Modulation Type	GMSK	Weight		Approx. 0.92lbs (420g)
Error Detection	32 bits of CRC, ARQ	Dimensions		Approx. 4.755" x 3.75" x 1.75" (111mm x 95.3mm x 44.5mm)
Encryption	Optional (see –AES option)	Enclosure		Extruded Aluminum
Range	60+ miles (100+ km) (dependant on link rate and line of sight)	Mount		Panel Mount
Sensitivity	-116dBm @ 2400bps link rate -114dBm @ 4800bps link rate -112dBm @ 9600bps link rate	Approvals		FCC Part 90 IC RSS119
Output Power	100mW - 5W	Order Options		
Serial Interface	RS232/RS485/RS422	-C1D2		Class 1 Div 2 (for use in hazardous environments)
Signals Interface	RxD1, TxD1, RTS, CTS, DCD, DSR, DTR, RxD2, TxD2, RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode	-AES		128 BIT AES Encryption (Canada & USA only. NOT AVAILABLE for export)
Serial Baud Rate	300 bps to 230.4 kbps	-CE		CE Certification
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			
Input Voltage	9-30 VDC			

Contact Information

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