

L400-OEM



400-480 MHz OEM Licensed Narrowband Wireless Modem

The L Series is a long range, 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

HV Option



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Specifications



Frequency	406.1 - 480 MHz* * Band use may be limited by country or operating zone/regulatory body	Core Voltage	4.0VDC to 5.5VDC, 7VDC to 30VDC (see -HV option)
Occupied Bandwidth	6.25, 12.5, or 25kHz	I/O Voltage (user selectable)	3.3VDC to 5.5VDC; RS232/485/422 levels (See -HV option)
Modulation Type	GMSK	Connectors: Antenna Data	MCX 40 Pin OEM Header
Error Detection	32 bits of CRC, ARQ	Environmental	-40°F - +185°F (-40°C - +85°C) 5-95% humidity, noncondensing
Encryption	Optional (see -AES option)	Weight	Approx. 3.2oz. (90 grams)
Range	60+ miles (100+ km) (dependant on link rate and line of sight)	Dimensions	Approx. 3.5" x 2.1" x .7" (89mm x 53.4mm x 17.8mm)
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 TTL Driver Level (see -HV option)	-HV	HV Option - High input voltage (12V to 30V) with RS232/485/422 Drivers
Signals Interface	RxD1, TxD1, RTS, CTS, DCD, DSR, DTR, RxD2, TxD2, RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode	-C1D2	Class 1 Div 2 (for use in hazardous environments)
Serial Baud Rate	300bps to 230.4kbps	-AES	128 BIT AES Encryption (Canada & USA only. NOT AVAILABLE for export)
Link Rate	1200 bps to 19.2 kbps	-CE	CE Certification
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Ad-Hoc, Transparent		
Diagnostics	Battery Voltage, Temperature, RSSI, and remote diagnostics		
Rejection	Excellent strong signal interference & rejection characteristics		

Contact Information

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