

### Product Overview

MLiS MLB-Z4001 is a Ethernet to 900 MHz RF modem designed for Ethernet communication via any readily available ZigBee network. Overall, it offers a more cost effective and time to market solution for bridging remote Machine to Machine over diverse locations without first having to invest and engineer a huge complex network.

MLB-Z4001 modem uses the RJ45 Connector to provide data communication interface and the DC jack to provide power input. LEDs are used to indicate the status of the terminal. MLB-Z4001 is taking advantage of the specific Mesh networking protocol, featuring dense network operation and supporting for sleeping routers, and are also available in a proprietary point-to-multipoint configuration.

MLB-Z4001 modem can be used to provide a wireless communications link for many applications, including warehouse, building automation, and street light applications.



#### MLiS MLB-Z4001

MLiS MLB-Z4001 is a Ethernet to 900 MHz RF modem that offers the following features,

- 900 MHz ZigBee network
- RF data rate up to 200 Kbps
- Configuration utility / Web Console
- IEC61000-4-5 LV1
- CE approved



General Features	
Frequency Band	902 to 928 MHz, software selectable channel mask for interference immunity
Power Input	5 - 32 VDC
Operating Temperature	-40°C - 85°C
ESD Protection	15 KV
Surge Protection	IEC61000-4-5 LV1
Dimension (L) x (W) x (H)	93.33 x 73.86 x 20 mm (excluding connectors)
Weight	
Casing Material	Metal
Data Transmission	
RF Data Rate	10 Kbps or 200 Kbps
Indoor / Urban Range	Up to 2000 ft. (610 m)
Outdoor/ Line-Of-Sight Range	Up to 9 miles (14 km) w/ dipole antenna; Up to 28 miles (45 km) w/ high-gain antenna
Transmit Power	Up to 24 dBm (250 mW) software selectable
Receiver Sensitivity	-101 dBm @ 200 Kbps, -110 dBm @ 10 Kbps
Special Features	
Networking Topologies	Mesh, Repeater, Point-to-Point, Point-to-Multipoint, Peer-to-Peer
Number of Channels, User Selectable Channels	64 channels available
Protocol	TCP / IP, UDP, HTTP, FTP, ICMP, IPv4, IGMP v1 / v2, DHCP, Telnet, Configuration Utility / Web Console
Encryption	128 bit AES
Spread Spectrum	FHSS (Software Selectable Channels)
Interfaces	
RF Antenna Socket	50ohm SMA
Power Connector	DC jack connector
Network Interface	RJ45 connect for Ethernet 10 / 100M
LED	1 x for Power, 1 x for Tx / Rx, 1 x for Ethernet 10 / 100M Indicator
Reset	HW Reset
Approvals	
CE	Yes



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