

MLB-Z4001 Ethernet to 900 MHz RF Modem



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Ethernet to 900 MHz RF Modem

MLIS MLB-Z4001 is an Ethernet to 900 MHz RF modem designed for Ethernet communication via any readily available ZigBee networks. 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 wireless communication link for many applications, including warehouse, building automation, and street light applications.

Strong Penetrating

-40 ~ +85°C

AutoMesh Network

Features

- 900 MHz RF signal
- Automatically build up Mesh Network (Auto-Mesh)
- Longer distance to 2000ft (610m)
- RF data rate up to 200 Kbps
- Configuration utility/Web console



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General Features	
Frequency Band	902~928 MHz, software selectable
Trequency band	channel mask for interference
	immunity
Power Input	5~32VDC
	-40~+75°C
Operating Temperature FSD Protection	15KV
Dimension (L)x(W)x(H)	86x76x25mm (excluding connectors)
Power Consumption	Normal mode: mA
Humidity	5~95% (non-condensing).
Weight	218g (without antenna)
Casing Material	Metal
Data Transmission	
RF Data Rate	10 Kbps or 200 Kbps
Indoor/Urban Range	Up to 2000ft (610m)
Outdoor/Line-of-Sight	Up to 9 miles (14km) w/ dipole
Range	antenna; up to 28 miles (45km) w/
	high-gain antenna
Transmit Power	Up to 24 dBm (250 mW) software
	selectable
Receiver Sensitivity	-101 dBm @ 200 Kbps
	-110 dBm @ 10 Kbps
Power Level	+7 dBm (5 mW)
	+15 dBm (32 mW)
	+18 dBm (63 mW)
	+21 dBm (125 mW)
	+24 dBm (250 mW)

Special Features	
Networking Topologies	Mesh, Repeater, Point-to-Point,
	Point-to-Multipoint, Peer-to-Peer
Number of Channels,	64 channels available
User Selectable	
Channels	
Protocol	TCP/IP, UDP, HTTP, ICMP, IPv4, IGMP,
	DHCP, Telnet
Encryption	128 bit AES
Configuration tool	Web console/utility
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 Power
	1 x Tx/Rx
	1 x Ethernet 10/100M Indicator
Reset	HW Reset
Reliability	
MTBF	2,039,188hrs
Approval	
Certification	EMC
	EN55022/24



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