

## Product Overview

MLiS MLB-Z1001 is a 900 MHz RF modem designed for RS232 / 422 / 485 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.

The MLB-Z1001 modem uses the DB9 / Terminal block connector to provide data communication interface and the DC jack to provide power input. LEDs are used to indicate the status of the terminal.

The MLB-Z1001 modem can be used to provide a wireless communications link for many applications, including warehouse, AGV, and street light applications.



### MLiS MLB-Z1001

The MLiS MLB-Z1001 is a 900 MHz RF modem that offers the following features,

- 900MHz RF network
- Superior outdoor LOS range up to 28 miles
- RF data rate up to 200 Kbps
- IEC61000-4-5 LV1
- CE Approved



General Features	
Frequency Band	902 to 928 MHz, software selectable channel mask for interference immunity
Power Input	5 to 32 VDC
Operating Temperature	-40°C ~ 85°C
ESD 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
Received 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
Encryption	128 bit AES
Spread Spectrum	FHSS (Software Selectable Channels)
Interfaces	
RF Antenna Socket	50ohm SMA
Power Connector	DC jack connector
Serial Interface	DB9 connect for RS-232 (Female) TB connector for RS-422 / 485
LED	1 x for Power , 1 x for Tx, 1 x for Rx Indicator
Reset	HW Reset
Approvals	
CE	Yes



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