

LRA-900-E

Ethernet to LoRa Radio Modem

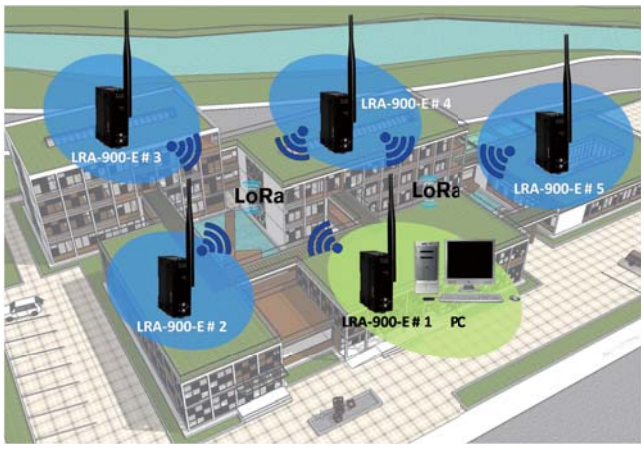
Features

- LoRa (Long Range) transmission technology
- 32 RF channels (Frequency band : 864~ 871.5MHz, 915~ 922.5MHz)
- RF baud rates: 10,000 ~ 250 bps
- Wireless line of sight (LOS) transmission range of up to 1500 meters at an RF baud rate of 10,000 bps
- Data transmission via Virtual COM or raw TCP connection
- Tiny Web server for configuration (HTTP)
- Supports TCP server-mode operation
- Supports UDP responder for device discovery (UDP Search)

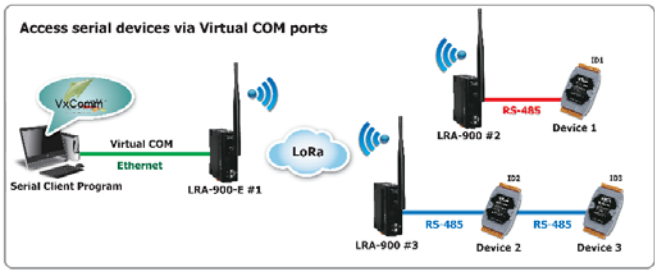
RoHS

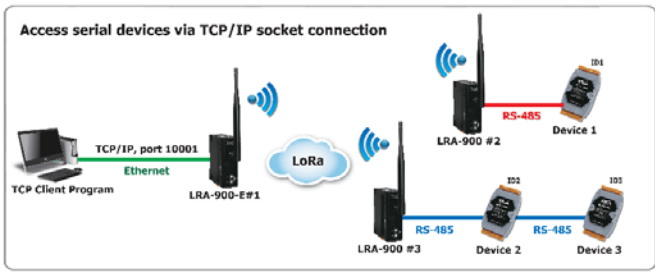
Introduction

The LRA-900-E is a Ethernet to radio device designed for remote communication operating in a transparent way and exploiting the physical layer of LoRa (Long Range) transmission technology. By using the VxComm Driver/Utility, the built-in RF port of the LRA-900-E can be virtualized to a standard PC COM Port in Windows. Therefore, users can transparently access RF datas over the Internet/Ethernet via COM Port program. The LRA-900-E provides a maximum line of sight (LOS) transmission distance of 1500 meters at an RF bit rate 10,000 bps. In order to overcome the interference that may be encountered in harsh environments, the LRA-900-E allows the RF transmission bit rate to be configured to a minimum of 250 bps, enhancing the capability of the modem to resist noise and other interference.



Applications





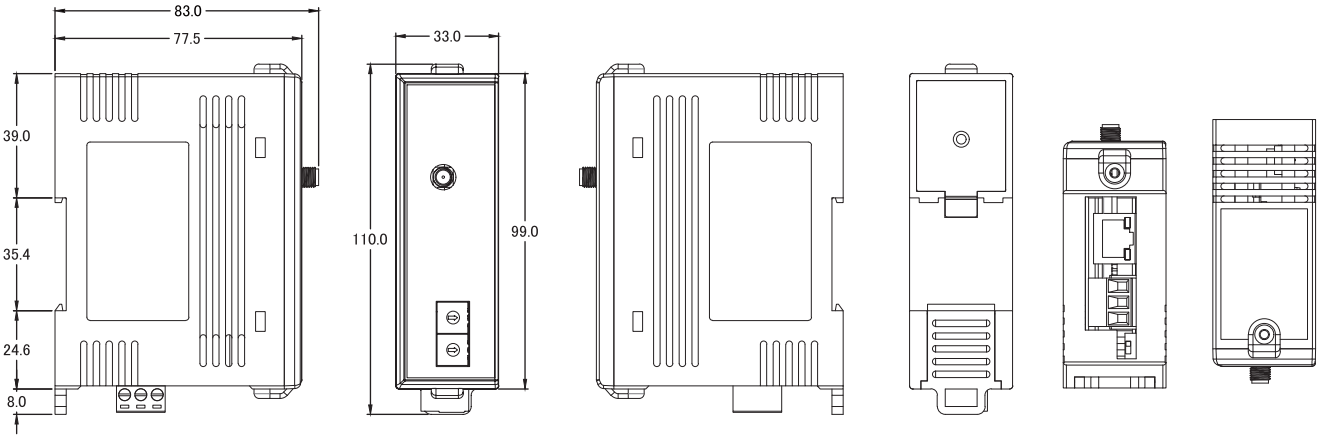
System Specifications

RF Interface	
System LED Indicator	864~ 871.5MHz, 915~ 922.5MHz (channel: 32, recommend using 868 +/- 4 MHz)
Baud Rate	10,000 ~ 250 bps
Transmission Power	15 dBm (Max.)
Antenna	2 dBi Omnidirectional Antenna
Transmission Distance	up to 1500 m (with 10,000 baud, in free field conditions)
Group ID	0~255
Protocols	Transparent transmit
Configuration	Web Server
Ethernet Interface	
Ethernet	10/100 Base-TX, 8-pin RJ-45 x 1, (Auto-negotiating, Auto-MDI/MDIX, LED indicator)

LED Indicators	
Red / Green / Yellow	Power / RF Tx / RF Rx Status
Power	
Required Supply Voltage	+10 VDC ~ +30 VDC
Power Consumption	1.5 W (Max.)
Mechanical	
Dimensions (W x L x H)	110 mm x 83 mm x 33 mm (not include antenna)
Installation	DIN-Rail
Environment	
OperatingTemperature	-25 ~ +75°C
Storage Temperature	-30 ~ +80°C
Humidity	10 ~ 90% RH, Non-condensing

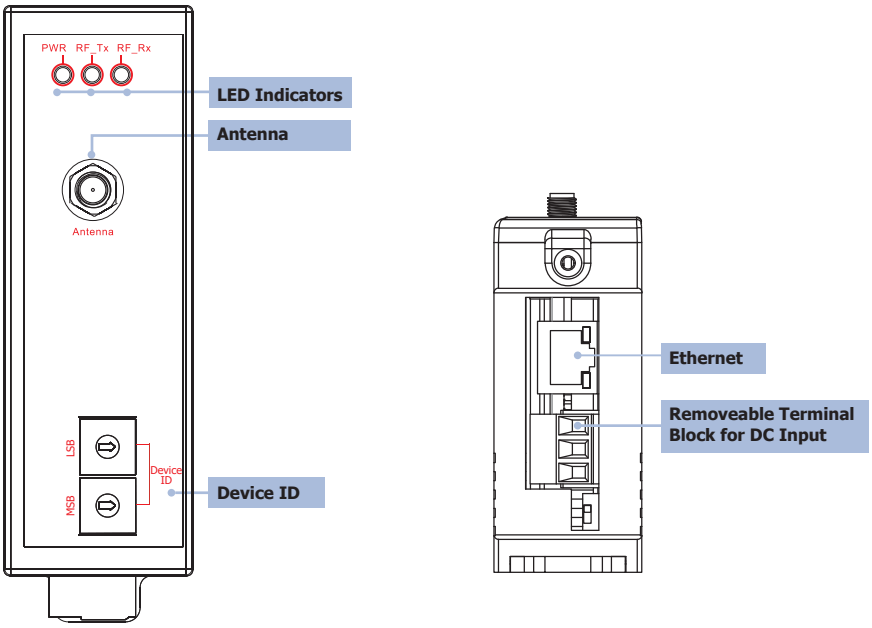
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Dimensions (Units: mm)



Left Side View | Front View | Right Side View | Rear View | Bottom View | Top View

Appearrance



Ordering Information

LRA-900-E CR	Ethernet to LoRa Radio Modem (RoHS)

Accessories

3S001-1	RG58A/U 1 Meter Long RP-SMA male to RP-SMA Female Cable

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