WISE-2200-M



Introduction

WISE-2200-M is a LoRaWAN Modbus read/write communication device powered by Advantech. WISE-2200-M supports maximum 128 address and 30 rule setting can easily connect to modbus sensors and meters for different kinds of applications.

Less interference with high penetration rate

LoRaWAN, created for machine-to-machine (M2M) and Internet of things (IoT) networks, is not a single technology, but a variety of low-power, wide area network technologies. Compare with traditional mobile network, LoRaWAN is known as lower cost with higher power efficiency. WISE-2200-M is the LoRaWAN which provides better connection compare with traditional wireless technology.

Common Specification

Wireless Communication

 Frequency Band 	EU 863-870 (MHz) / RU 864-870 (MHz) US 902-928 (MHz) / AU 915-928 (MHz) AS 919-924 (MHz) / TH 920-925 (MHz) JP 920-928 (MHz)
 Spreading Factor 	7~12
 Transmit Power 	Up to 20dBm
 Topology 	Star (LoRa/LoRaWAN)
 Sensitivity 	-148dB
 Data Rate 	50 kbps at FSK mode EU
	21.9 kbps at SF7 mode US/TW
	5.47 kbps at SF7 mode for JP
General	
 Channel 	1 (for RS-485 Modbus connection)
LED Indicator	2
 Power Input 	5-50V _{DC} from Terminal Block
 Power Consumption 	1.5W
 Configuration Interface 	Micro-B USB

Mounting

- DIN 35 rail, wall, pole Dimension (W x H x D) 71 x 52 x 30 mm (without Antenna)
- Certification
- NCC, FCC, CE, ANATEL, NBTC, RCM

Environment

- Operating Temperature -25~70 °C
- 5~95% RH Operating Humidity
- Storage Temperature -40~85 °C
- Storage Humidity 0~95% RH

General

- RS-485
- Messaging Protocol
- Data+, Data- (for query node data) Modbus/RTU

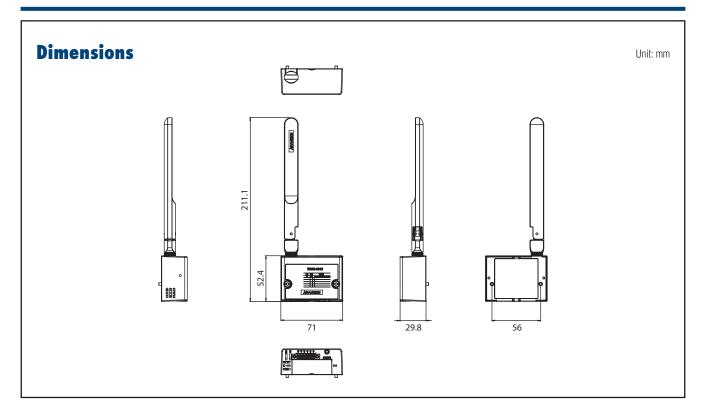
AD\ANTECH Wireless IoT Sensing Devices

LoRaWAN Single RS-485 I/O Module

Features

- LoRaWAN wireless technology with Less interference with high penetration rate capability
- Support Modbus/RTU communication protocol
- Support max. 128 address and 30 rule settings
- 5-50V_{DC} wide input power design
- · Compact design, suitable for plug and play applications
- Industrial design concept for different kinds of environment

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Ordering Information

LoRaWAN Modbus Read/Write Communication Device

WISE-2200-MNA

LoRaWAN Modbus R/W Communication Device (NA915)

Firmware Image (Optional)	
96632200K00	WISE-2200-MJA Patch (use for Korea)
96632200Z00	WISE-2200-MJA Patch (use for Brazil/AU/NZ)
96632200J00	WISE-2200-MJA Patch (use for Japan)

WISE-2200-MEA LoRaWAN Modbus R/W Communication Device (EU868)
 WISE-2200-MTA LoRaWAN Modbus R/W Communication Device

LoRaWAN Gateway

• WISE-6610-NB LoRaWAN gateway with NA915 MHz

(AS923)

- WISE-6610-EB LoRaWAN gateway with EU868 MHz
- WISE-6610-TB LoRaWAN gateway with AS923 MHz
- WISE-6610-JB LoRaWAN gateway with JP923 MHz
- WISE-6610-EL-NB LoRaWAN gateway with NA915 MHz and Edgelink
- WISE-6610-EL-EB LoRaWAN gateway with EU868 MHz and Edgelink
- WISE-6610-EL-TB LoRaWAN gateway with AS923 MHz and Edgelink
- WISE-6610-EL-JB LoRaWAN gateway with JP923 MHz and Edgelink

Accessories

- 1750008837-01* 902-928MHz Dipole Antenna for WISE-2200-MNA
- * needs to order antenna separately for WISE-2200-MNA part number