

WISE-2200-M

LoRaWAN Single RS-485 I/O Module

NEW



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
▪ 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

Environment

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

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
- Compact design, suitable for plug and play applications
- Industrial design concept for different kinds of environment

General

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

Ordering Information

LoRaWAN Modbus Read/Write Communication Device

- **WISE-2200-MNA** LoRaWAN Modbus R/W Communication Device (NA915)

Firmware Image (Optional)

96632200J00	WISE-2200-MJA Patch
96632200K00	WISE-2200-MKA Patch
96632200Z00	WISE-2200-MZA AU915 Patch
96632200E00	WISE-2200-MEA EU868 Patch
96632200T00	WISE-2200-MTA AS923 Patch

LoRaWAN Gateway

- **WISE-6610-N100-A** LoRaWAN Gateway NA915 Version
- **WISE-6610-E100-A** LoRaWAN Gateway EU868 Version
- **WISE-6610-A100-A** LoRaWAN Gateway AS923 Version

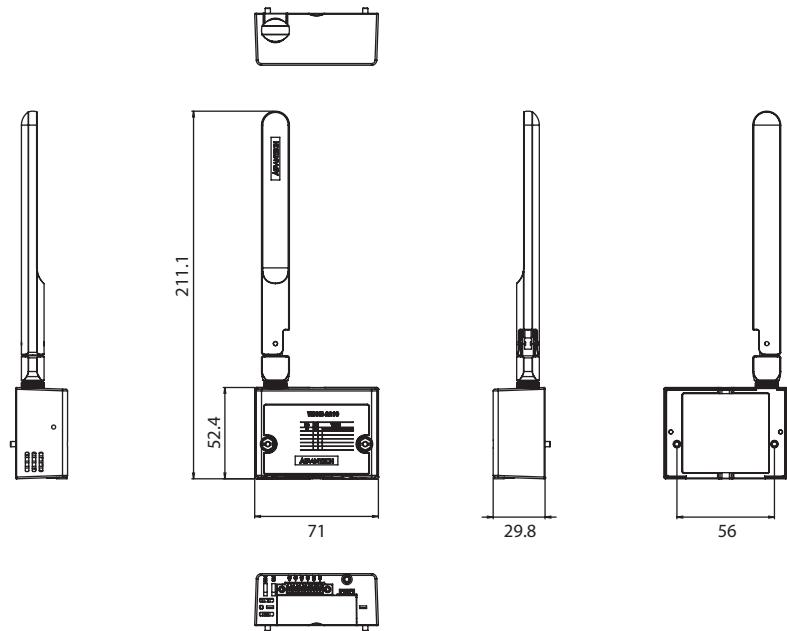
Accessories

- **1750008836-01*** 863-870MHz Dipole Antenna for WISE-2200-M
- **1750008837-01*** 902-928MHz Dipole Antenna for WISE-2200-M

* needs to order antenna separately

Dimensions

Unit: mm



Mouser Electronics

Authorized Distributor

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