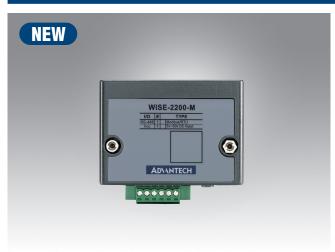
WISE-2200-M

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









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 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

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

All product specifications are subject to change without notice.

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
96632200T00	WISE-2200-MTA AS923 Patch

WISE-2200-MEA LoRaWAN Modbus R/W Communication Device

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

1750008837-01* 902-928MHz Dipole Antenna for WISE-2200-MNA

* needs to order antenna separately for WISE-2200-MNA version

