



iWSN-2200-R1

iWSN Data Concentrator with 1-port RS-485 and 1-Channel Relay Output (Asia Only)

Introduction

iWSN-2200-R1 is an iWSN wireless data contractor, it supports one 433MHz wireless communication interface and one RS-485 communication interface. The module supports Modbus RTU protocol slave, the main function can receive and buffer 31 iWSN sensor's data by wireless, and user can transmit Modbus RTU commands to read the sensor's data by RS-485 interface. In wireless interface, the module supports 16 wireless channels and 8 groups ID by rotary switch and DIP switch setting, and it can automatically control relay output for specific wireless packets that such as emergency distress packages, so user can easy to use the them to divide and manage the wireless network of 433MHz frequency.

System Specifications

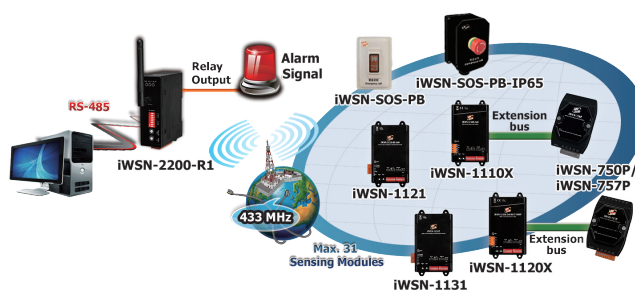
Model	iWSN-2200-R1
EMS Protection	
EFT (IEC 61000-4-4)	+/- 1kV
ESD (IEC 61000-4-2)	+/- 4kV Contact
Surge (IEC 61000-4-5)	+/- 1kV
LED Indicators	
Status	1 x Power 1 x RF_Tx 1 x RF_Rx
Antenna	
Connector	RP-SMA Male (Plug)
Dimensions (mm)	10 x 108 (Ø x L)
Type	0 dBi, Omni-Directional
Relay Output	
Channels	1 (Form A)
Type	Power Relay, (SPST N.O.)
Contact Rating	5A @ 250VAC 5A @ 30VDC
Operate Time	10ms (Max.)
Release Time	5ms (Max.)
Electrical Endurance	2 × 10 ⁷ ops.
Mechanical Endurance	1 × 10 ⁵ ops.
COM Ports	
Ports	1 x RS-485

Features

- 433MHz Radio Frequency
- 16 RF Channels
- Supported Modbus RTU protocol (Slave)
- Supported data buffers of 31 iWSN sensors
- 1 Channel Relay Output

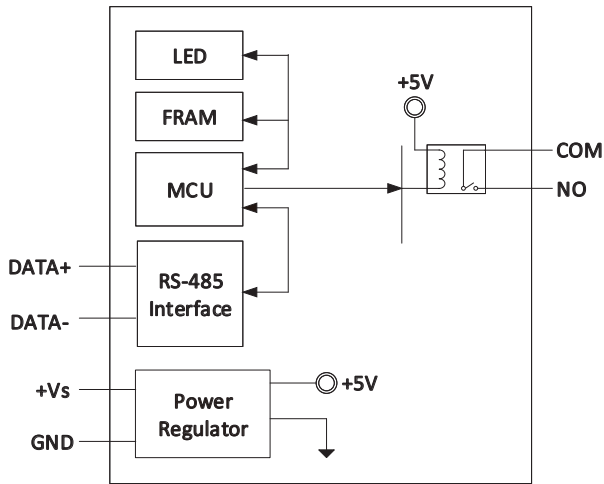


Applications

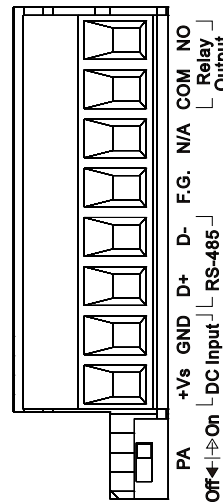


Model	iWSN-2200-R1
Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200bps, N81
Electrical Endurance	Modbus RTU
Mechanical Endurance	1 to 31
Mechanical	
Dimensions(L x W x H)	84 mm x 108 mm x 33 mm (Without antenna)
Installation	DIN-Rail
Power	
Consumption	0.5W Max.
Input Type	+10 to +30 VDC
Mechanical	
Dimensions (mm)	108 x 84 x 33 (W x L x H)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 to +75°C
Storage Temperature	-30 to +80°C
Humidity	10 to 90% RH, Non-condensing

Internal I/O Structure



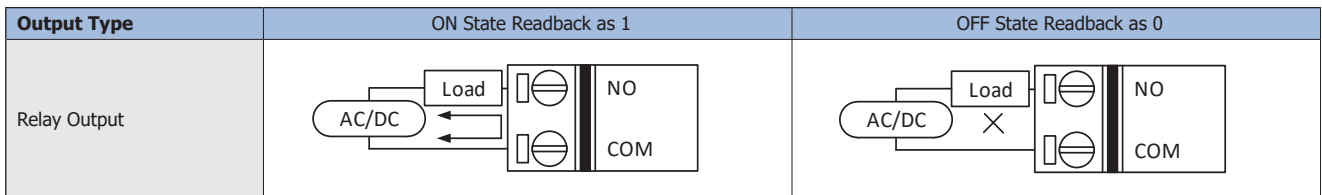
Pin Assignments



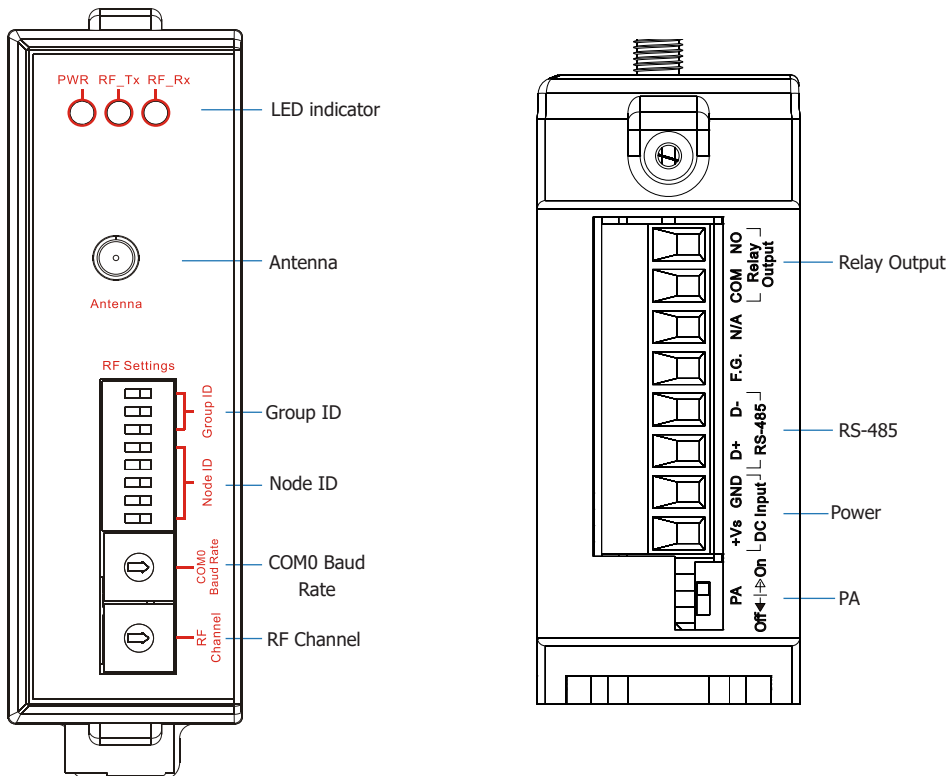
Pin	Name	Instructions
8	No	Relay Output
7	COM	
6	N/A	Reserved
5	F.G.	Shield ground
4	D-	RS-485
3	D+	
2	GND	+10V~+30VDC
1	+Vs	

Item	Instructions	
PA	No	Maximum power of wireless output
	COM	Normal power of wireless output

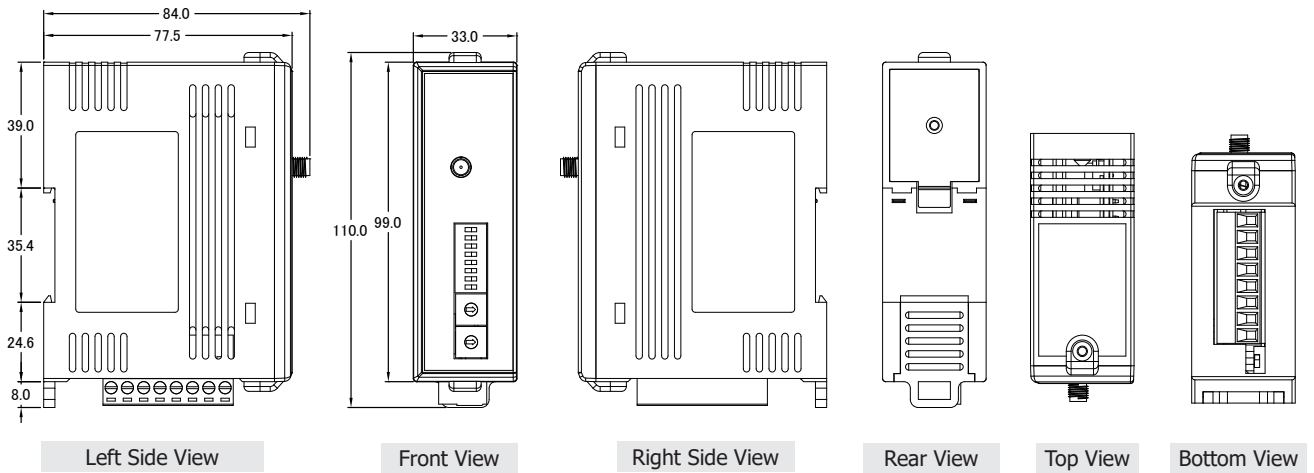
Wire Connections



Appearance




■ Dimensions (Units: mm)



■ Ordering Information

iWSN-2200-R1 CR	iWSN Data Concentrator with 1-port RS-485 and 1-Channel Relay Output (RoHS) (Asia Only)
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■ Accessories

Extension Cable 	Antenna Base, Magnetic Disk Base with 1.5 Meter Cable
	3S001-1, RG58A/U 1 Meter Long RP-SMA (male) to RP-SMA (female)