

MDC-211-433

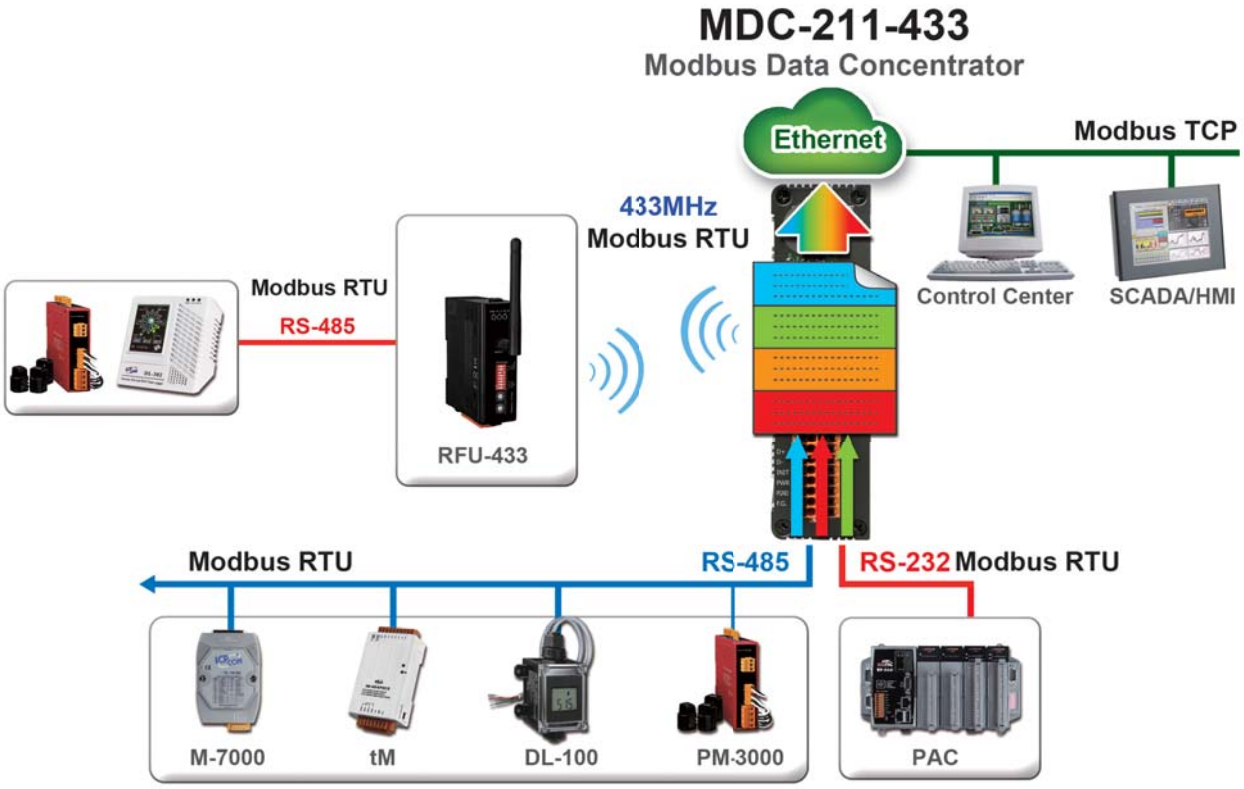
433MHz Modbus data concentrator (Asia Only)

Features

- 433MHz wireless frequency band
- 16 wireless channels and 65536 group IDs
- Support Modbus RTU/TCP communication protocol
- Expand Ethernet connection capabilities for 433MHz/RS-232/RS-485 devices
- Can execute up to 250 Modbus polling commands
- Can collect and manage 9600 points of information each of DI/DO/AI/AO
- Use CSV files to edit configuration settings and support export/import functions

Introduction & Applications

MDC-211-433 is a Modbus data concentrator developed by ICP DAS. It has Ethernet, 433MHz wireless communication, RS-232 and RS-485 communication interfaces, and can connect Modbus RTU devices to the Ethernet network. In addition, MDC-211-433 will sequentially read the data of Modbus RTU devices according to the user-defined command list, and integrate the data of different Modbus RTU devices into a continuous address format, so that the remote monitoring host can connect to MDC-211-433 via Ethernet to access the data of multiple Modbus RTU devices at one time. Therefore, through the Modbus data centralized management function of MDC-211-433 and the convenient connection and communication capabilities of Ethernet, a stable remote monitoring system can be quickly established, allowing users to greatly simplify the difficulty of data collection, and then reduce the traffic loading of the Ethernet network to improve system performance.

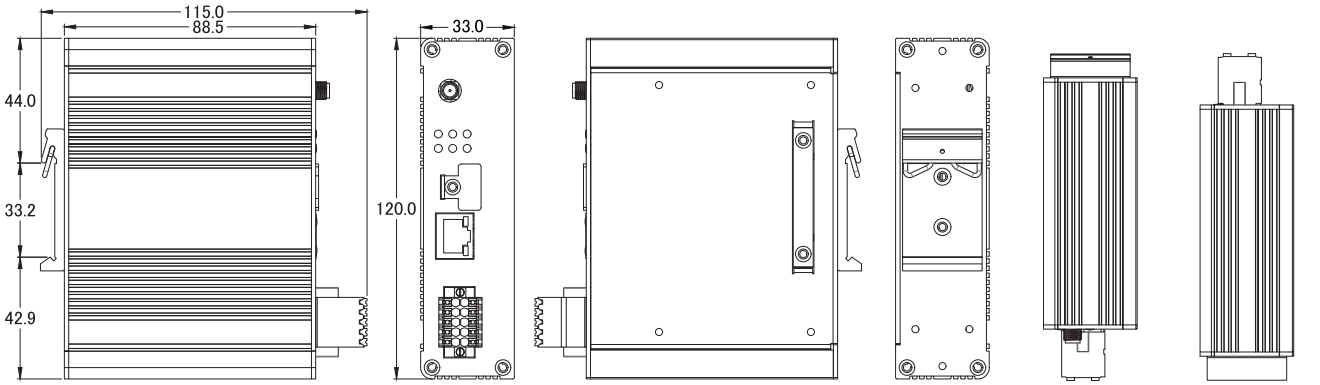


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System Specifications

Model	MDC-211-433
RF	
Antenna	0 dBi Omni directional
Baud Rate	650, 1200, 2400, 4800, 9600, 19200, 38400, 57600 (bps)
Group ID	0 ~ 65535
Radio Frequency	433.1, 433.2, …, 434.5, 434.6 (MHz)
Transmission Power	Default 10 dBm, Max 19 dBm
Transmission Distance (LoS)	300 m (at 9600 bps RF Rate and 10 dBm Tx Power)
Ethernet Network	
Port	x1, 10/100 Base-TX
Protocol	Modbus/TCP Slave
COM Ports	
Ports	1 x 3-wire RS-232, 1 x 2-wire RS-485
Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (bps)
Data Format	N81, N82, O71, O81, E71, E81, S71, S81, M71, M81
Protocol	Modbus RTU Master / Slave
Polling Definition	250 Modbus command definitions for all 433MHz/RS-232/RS-485 ports
Shared Memory	9600 registers for each of AI, AO, DI and DO data
Power	
Input Range	+10VDC ~ +30VDC
Consumption	5W@24VDC
Mechanical	
Casing	Metal
Dimensions (mm)	33 x 120 x 115 (W x L x H, not include antenna)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 ~ +80°C
Humidity	10~90% RH, non-condensing

Dimensions (Units: mm)



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

Ordering Information

MDC-211-433 CR	433MHz Modbus data concentrator with 1 x Ethernet, 1 x RS-232 and 1 x RS-485 (RoHS) (Asia Only)

Accessories

External Antenna	ANT-104-02, 0 dBi, 400 MHz omni-directional antenna (RP-SMA Male Plug)
External Cable	3S001-1, RG58A/U, RP-SMA Male to RP-SMA Female, 1M

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