

RS485 to Modbus TCP Gateway

DCEW
-0171/0172

APPLICATIONS

- IoT Data Collection
- Factory Automation
- Building Automation

FEATURES

- 1 Port RS485 Modbus RTU to Ethernet Modbus TCP Gateway
- Support TCP, UDP, IP, ICMP, HTTP, DHCP, SNMP(Optional), Modbus TCP, Modbus RTU
- RS485 Baud rate 300bps ~921.6kbps
- IEEE 802.3 10BASE-T/ IEEE 802.3u 100BASE-TX compatible
- 5 Ethernet Switch Ports
- Each port supports HP Auto-MDIX
- Support bandwidth, ingress and egress rate control on a per MAC port basis
- Per port support broadcast storming filter function for broadcast, multicast and unknown unicast packets Flow Control:
- Supports IEEE 802.3x Flow Control in full-duplex mode
- Supports Back Pressure Flow Control in half-duplex mode
- Industrial-temperature (-40°C ~ +75°C)
- DC 24V Power Input, Wide range power input :DC +10~48V
- DIN Rail Mount



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SPECIFICATION

Ethernet Interface

◆ Standards	IEEE 802.3, IEEE 802.3u
◆ Number of Ports	5
◆ Connector	10/100 Mbps, Auto MDI/MDIX
◆ Transformer Isolation	8-pin RJ45
◆ Protection	1500Vrms

Serial Interface

◆ Protocol	Modbus RTU/ASCII Slave/Master
◆ Number of Ports	DCEW-171: 1 Port RS485 DCEW-172: 2 Port RS485
◆ Connectors	Terminal Block
◆ ESD Protection	15 kV for all signals
◆ RS-485 Data Direction Control	automatic data direction control

Serial Communication Parameters

◆ Data Bits	7, 8
◆ Stop Bits	1, 2
◆ Parity	None, Even, Odd, Space, Mark
◆ Flow Control	—
◆ Baud rate	300 bps to 921.6 kbps, option to 50 bps ~ 921.6 kbps

Serial Signals

◆ RS-485-2w	Data+, Data-
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Physical Characteristics

◆ Housing	PC
◆ Weight	300 g
◆ Dimensions	99 x 72 x 32.75 (L x W x H) mm

Environmental Limits

◆ Operating Temperature	-40 to 75°C
◆ Storage Temperature	-40 to 85 °C (-40 to 185°F)
◆ Ambient Relative Humidity	5 to 95% (non-condensing)
◆ Altitude	Up to 2000 m (795 hPa), higher altitudes on demand

Power Requirements

◆ Input Voltage	10 to 60 VDC
◆ Power Connector	Terminal block
◆ Power Consumption	110 mA @ DC24V
◆ Isolation	—

Standards and Certifications

◆ EMC	CE
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DIMENSION

