IoT Controller UC300 Series

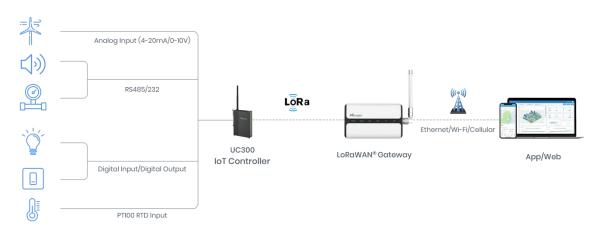


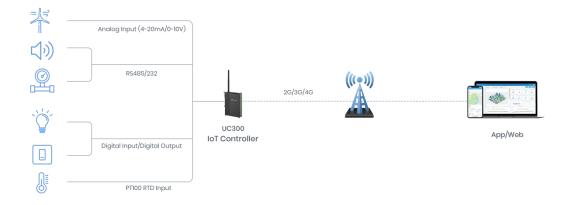


UC300 series is an IoT controller used for remote control and data acquisition from diverse devices. It contains multiple I/O interfaces including analog input, digital input, relay output, serial port, PT100 RTD input, which support remote device data transmission via LoRaWAN® or 3/4G networks. Besides, UC300 series supports multiple trigger conditions and actions which can work autonomously even when the network dropped. Combining with Milesight IoT Cloud solution, it can monitor and control remote devices via web server or mobile App easily.

Adopting industrial design and IP30 metal case, UC300 is widely used in indoor applications like smart factory, building automation, etc.

Application Example





Features

- Easy to connect with diverse wired devices through DIO/AI/RS232/RS485/PT100
 RTD input interfaces
- Support LoRaWAN® or 3/4G wireless communication
- Multiple triggering conditions and actions
- Embedded watchdog for device working stability
- Industrial metal case design with wide operating temperature range
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Milesight IoT Cloud solution

Specifications

Wireless Transmission

LoRaWAN® Model (Option A)

Technology LoRaWAN®, LoRa D2D

Antenna Connector $1 \times 50 \Omega$ SMA Connector (Center PIN: SMA Female)

Frequency CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4

Tx Power 16dBm (868MHz)/22dBm (915MHz)/19dBm (470MHz)

Sensitivity -137dBm @300bps

Mode OTAA/ABP Class C

Advanced Feature LoRa D2D Controller, LoRa D2D Agent

Cellular Model (Option B)

Network 4G LTE/3G/2G

Antenna Connector $1 \times 50 \Omega$ SMA Connector (Center PIN: SMA Female)

SIM Slot 1 (Micro SIM-3FF)

Application Mode TCP/UDP/MQTT/AWS/Milesight IoT Cloud/SMS

Data Interfaces

Interface Type 3.5mm Terminal Block

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Ports $4 \times DI + 2 \times DO$

Digital Input Opto-isolated Digital Inputs, 3-24VDC (pulse counter support)

Digital Output SPDT Relay Contact Rating: 3A@DC Max: 30 V or AC Max: 250 V

Serial Port

Ports 1 × RS232 + 1 × RS485

Baud Rate 1200~115200 bps

Protocol Transparent (RS232), Modbus RTU (RS485)

Analog Input

Ports $2 \times 4 \sim 20 \text{ mA} + 2 \times 0 \sim 10 \text{ V}$

Resolution 12 bit

Analog Input (RTD)

Ports 2 × PT100 RTD Input

Input Connections 2, 3-wire

Resolution 12 bit

Range -200°C ~ 800°C

Others

Configuration Port 1 × Type-C

LED Indicators 1 × System, 1 × ACT

Built-in Watchdog, Timer

Physical Characteristics

Power Connector 3.5 mm Terminal Block

Power Supply 5-24 VDC

Color & Material Black, Metal

Ingress Protection IP30

Operating Temperature $-20^{\circ}\text{C} \sim 60^{\circ}\text{C} (-4^{\circ}\text{F to } +140^{\circ}\text{F})$

Relative Humidity $0\% \sim 95\%$ (non-condensing) at 25° C/77 $^{\circ}$ F

Dimensions $93 \times 70 \times 22 \text{ mm} (3.66 \times 2.76 \times 0.87 \text{ in})$

Installation Desktop, Wall Mounting, DIN Rail Mounting

