

IoT Controller UC300 Series

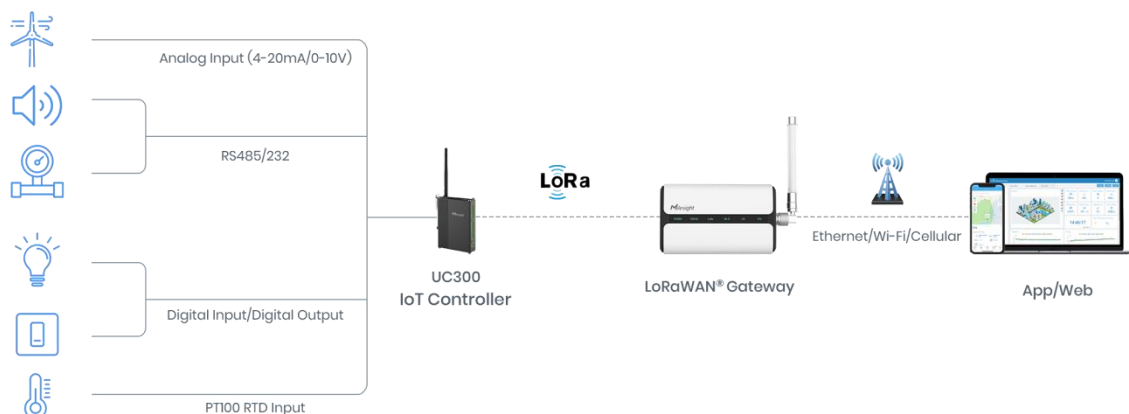
Milesight

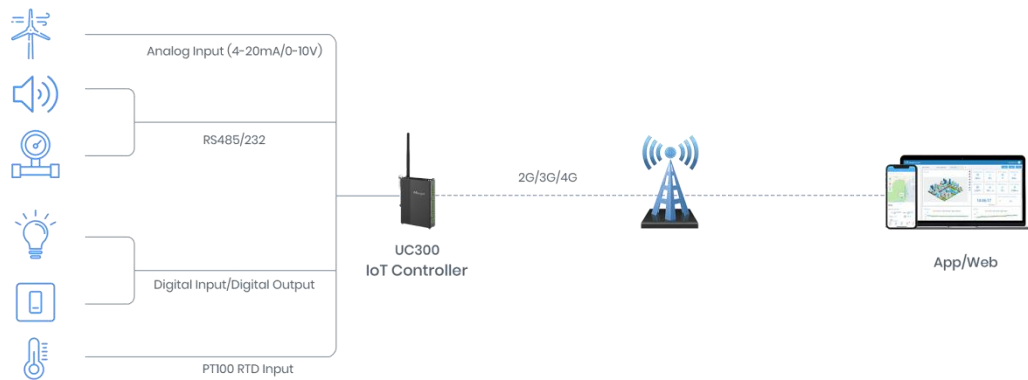


UC300 series is an IoT controller used for remote control and data acquisition from diverse devices. It contains multiple I/O interfaces including analog input, digital input, relay output, serial port, PT100 RTD input, which support remote device data transmission via LoRaWAN® or 3/4G networks. Besides, 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 × 50 Ω 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 × 50 Ω 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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IO

Ports	4 × DI + 2 × DO
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Digital Input	Opto-isolated Digital Inputs, 3-24VDC (pulse counter support)
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Digital Output	SPDT Relay Contact Rating: 3A@DC Max: 30 V or AC Max: 250 V
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Serial Port

Ports	1 × RS232 + 1 × RS485
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Baud Rate	1200~115200 bps
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Protocol	Transparent (RS232), Modbus RTU (RS485)
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Analog Input

Ports	2 × 4~20 mA + 2 × 0~10 V
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Resolution	12 bit
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Analog Input (RTD)

Ports	2 × PT100 RTD Input
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Input Connections	2, 3-wire
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Resolution	12 bit
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Range	-200°C ~ 800°C
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Others

Configuration Port	1 × Type-C
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LED Indicators	1 × System, 1 × ACT
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Built-in	Watchdog, Timer
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Physical Characteristics

Power Connector	3.5 mm Terminal Block
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Power Supply	5-24 VDC
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Color & Material	Black, Metal
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Ingress Protection	IP30
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Operating Temperature	-20°C ~ 60°C (-4°F to +140°F)
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Relative Humidity	0% ~ 95% (non-condensing) at 25°C/77°F
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Dimensions	93 × 70 × 22 mm (3.66 × 2.76 × 0.87 in)
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Installation	Desktop, Wall Mounting, DIN Rail Mounting
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