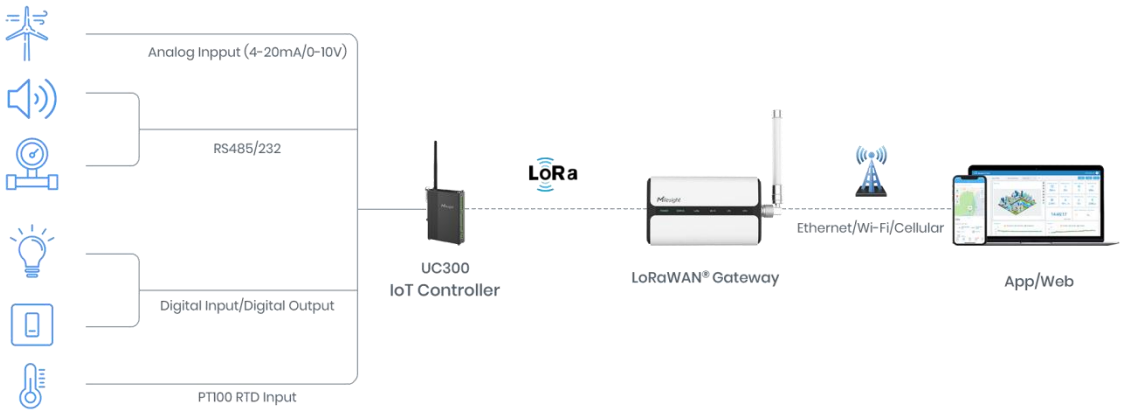
IoT Controller
UC300 Series

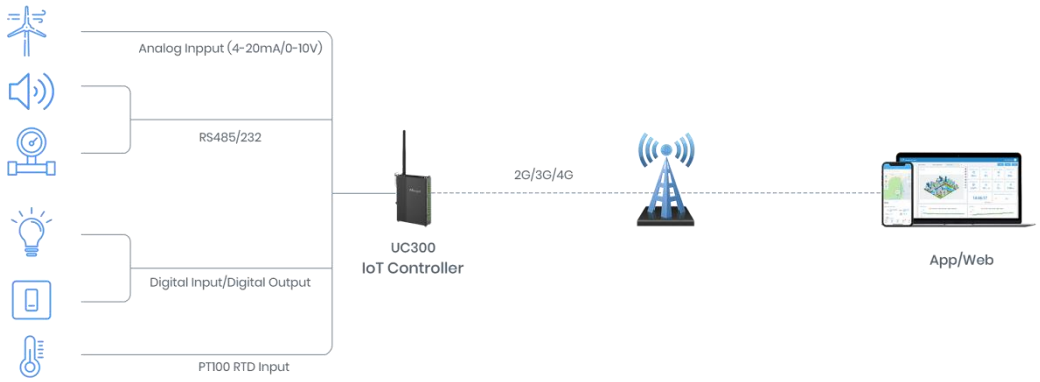


UC300 series is an IoT controller used for remote control and data acquisition from diverse devices. It contains multiple I/O interfaces including analog input, digital input, relay output, serial port, PT100 RTD input, which support remote device data transmission via LoRaWAN® or 3/4G networks. Besides, 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	
Technology	LoRaWAN® or 2G/3G/4G (Hardware Optional)
LoRaWAN®	
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
Cellular	
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

IO	
Ports	4 × DI + 2 × 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 × 4~20 mA + 2 × 0~10 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°C ~ 60°C (-4℉ to +140℉)
Relative Humidity	0% ~ 95% (non-condensing) at 25°C/77℉
Dimensions	93 × 70 × 22 mm (3.66 × 2.76 × 0.87 in)
Installation	Desktop, Wall Mounting, DIN Rail Mounting