

# IoT Controller UC300 Series

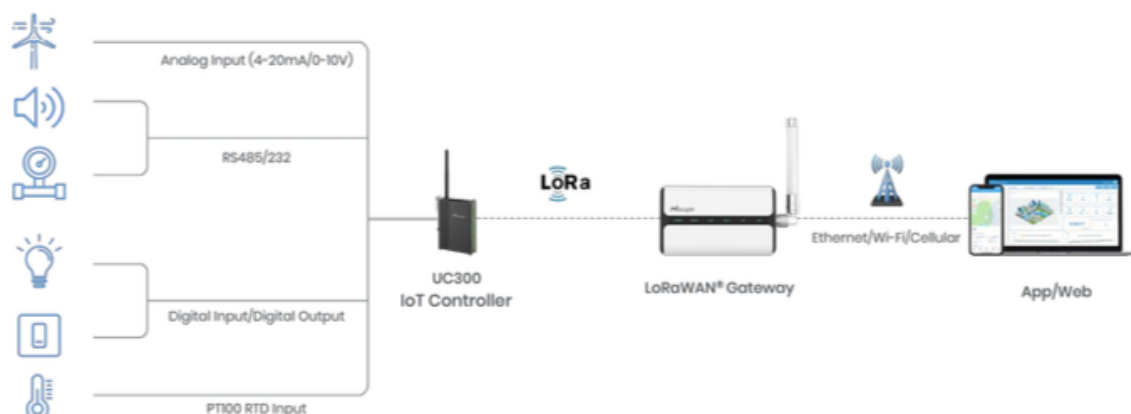
# Milesight

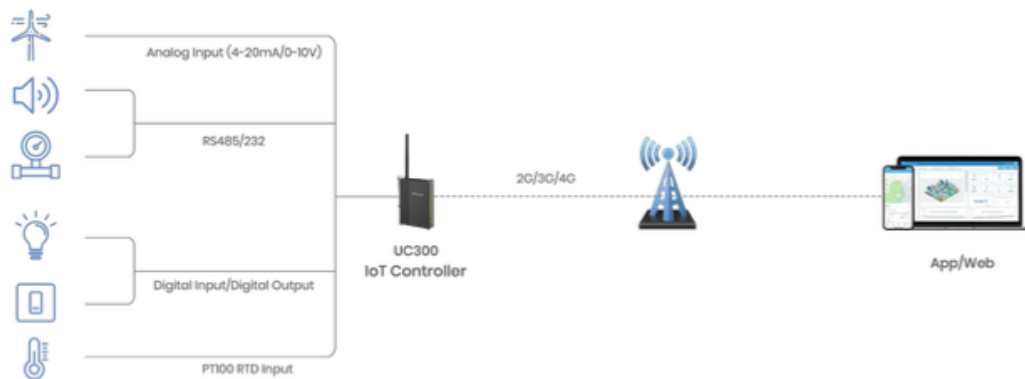


UC300 series is an IoT controller used for remote control and data acquisition from diverse devices. It contains multiple I/O interfaces including analog input, digital input, relay output, serial port, PT100 RTD input, which support remote device data transmission via LoRaWAN® or 3/4G networks. Besides,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

### 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°F to +140°F)

Relative Humidity 0% ~ 95% (non-condensing) at 25°C/77°F

Dimensions 93 × 70 × 22 mm (3.66 × 2.76 × 0.87 in)

Installation Desktop, Wall Mounting, DIN Rail Mounting



WELKO Av. Providencia 2330, Of. 63  
+56 9 3174 3870 / +56 9 3427 0017  
[ventas@welko.cl](mailto:ventas@welko.cl) - [www.welko.cl](http://www.welko.cl)

