

IoT Controller

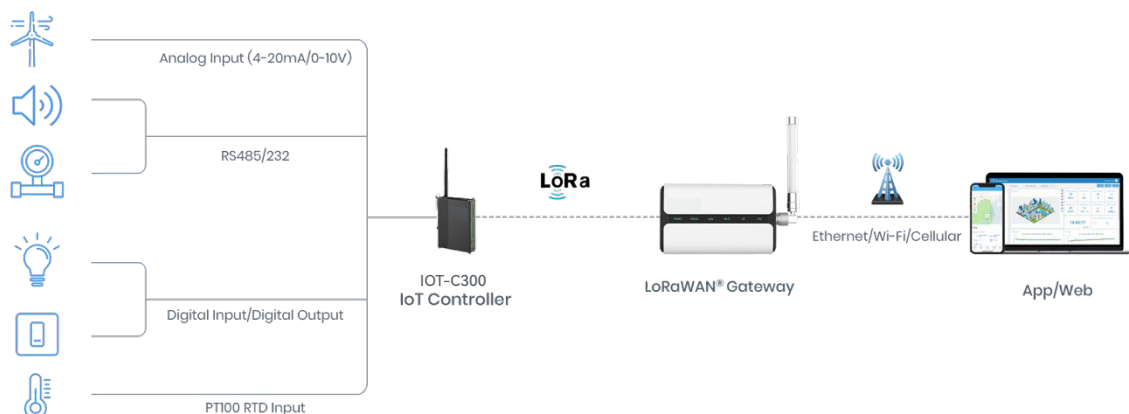
IOT-C300 Series

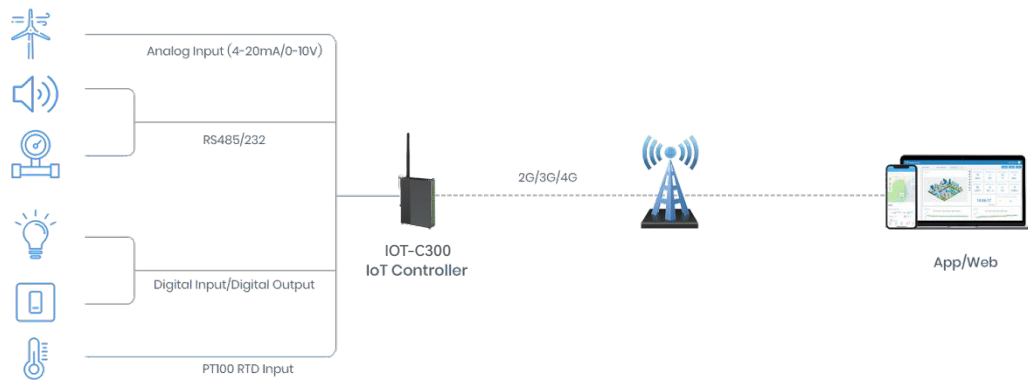


IOT-C300 series is an IoT controller used for remote control and data acquisition from diverse devices. It contains multiple I/O interfaces including analog input, digital input, relay output, serial port, PT100 RTD input, which support remote device data transmission via LoRaWAN® or 3/4G networks. Besides, 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 |