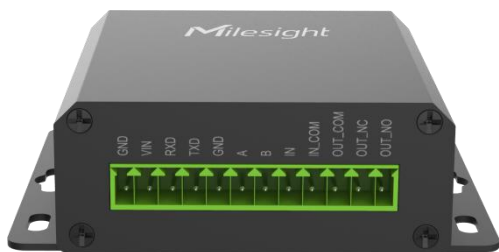


LoRaWAN® Controller UC11 Series

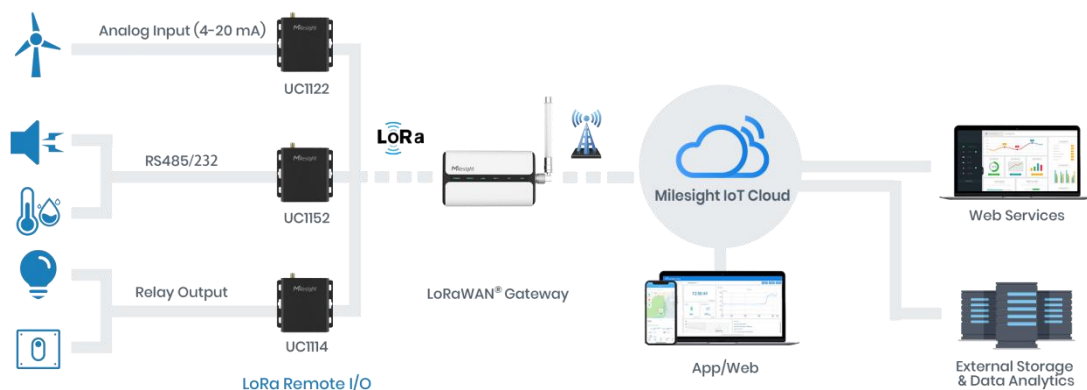
Milesight



UC11 series LoRa wireless controller is a device used for data acquisition from multiple sensors. It contains different I/O interfaces including analog inputs, digital inputs, relay outputs, serial ports, which simplify the deployment and replacement of LoRaWAN® networks. Besides, UC11 series support multiple trigger conditions and actions which can work without network.

Adopting industrial design and IP30 metal case, UC11 series is widely used in indoor applications like smart industries, building automation, etc.

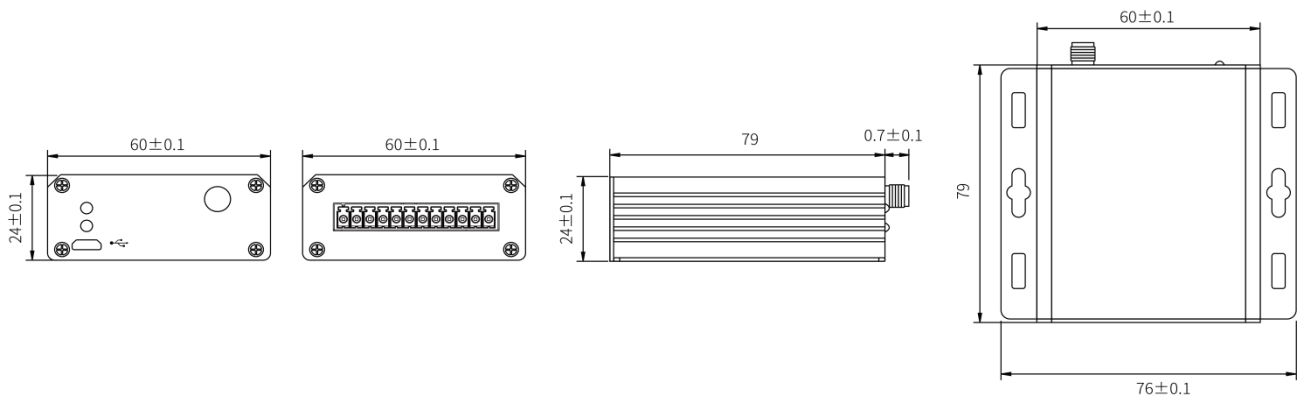
◆ Application Example



◆ Features

- Easy to connect with multiple wired sensors through GPIO/AI/RS232/RS485 interfaces
- Ultra-wide-distance transmission up to line of sight of 10km
- Multiple triggering conditions and actions
- Embedded watchdog for work 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

◆ Dimensions(mm)



◆ Specifications

Wireless Transmission

Technology	LoRaWAN [®]
Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class C

Data Interfaces

Interface Type	3.5 mm Terminal Block
----------------	-----------------------

IO

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	RS232/RS485
-------	-------------

Baud Rate	4800~115200bps(RS232)/1200~115200 bps(RS485)
Protocol	Transparent (RS232), Modbus RTU (RS485)

Analog Input

Input Range	4~20mA
Resolution	12 bit

Others

Configuration Port	1 × Micro USB
LED Indicators	1 × System, 1 × ACT
Built-in	Watchdog, Timer

Physical Characteristics

Power Connector	3.5mm Terminal Block
Power Supply	5-24 VDC
Power Consumption	≤0.24W
Ingress Protection	IP30
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F
Dimensions	79 × 60 × 24 mm (3.11 × 2.36 × 0.94 in)
Installation	Desktop, Wall mounting

Approvals

Regulatory	CE, FCC, RoHS
------------	---------------

◆ Ordering Information

Model	Digital Input	Digital Output	Analog Input	RS232	RS485
UC1114	2	2	-	-	-
UC1122	1	1	2	-	-
UC1152	1	1	-	1	1

