LoRaWAN® Controller Milesight **UC50x Series**





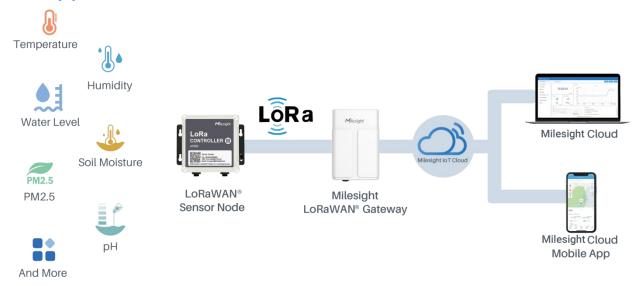
UC50x series is a LoRaWAN® controller used for data acquisition from multiple sensors. It contains different I/O interfaces such as analog inputs, digital inputs, digital outputs, serial ports and so on, which simplify the deployment and replacement of LoRaWAN® networks.

UC50x series can be easily and quickly configured by NFC or wired USB port. For outdoor applications, it provides solar or built-in battery power supply and is equipped with IP67-rated enclosure and M12 connectors to protect itself from water and dust in harsh environments.

Features

- Easy to connect with multiple wired sensors through GPIO/AI/RS232/RS485 interfaces
- Long transmission distance up to 11km with line of sight
- Waterproof design including IP67 case and M12 connectors
- Solar powered and built-in battery optional
- Quick wireless configuration via NFC
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Milesight IoT Cloud solution

Application



Specifications

Input Range

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Wireless Transmission		
Technology	LoRaWAN [®]	
Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923	
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)	
Sensitivity	-137dBm @300bps	
Work Mode	UC501: Class A, Class C	
	UC502: Class A	
Data Interfaces		
Interface Type	M12 A-Coded Male	
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Ports	2 × GPIO	
Logical Level	Low: 0~0.9V, High: 2.5~3.3V	
Work Mode	Digital Input, Digital Output, Pulse Counter	
Serial Port		
Ports	1 × RS232 or RS485 (Switchable)	
Baud Rate	300~115200 bps	
Protocol	Transparent (RS232), Modbus RTU (RS485)	
Analog Input		
Ports	2 × Analog input	
Resolution	12 bit	

4~20mA or 0~10V (Switchable)

Power Output	
Ports	2 × 3.3 V, 2 × 5/9/12 V (Switchable)
Operation	
Power On & Off	NFC, power button (Internal)
Configuration	Mobile App(via NFC) or PC software(via USB Type-C)
Physical Characterist	ics
Operating Temperature	-20°C to +60°C
Ingress Protection	IP67
Dimension	120.1 × 120.1× 55.4 mm (4.73 × 4.73 × 2.18 in)
Power Connector	1 × M12 A-Coded Male Interface (Only UC501 included)
Power Supply	1. Solar powered + 2*2550mAh battery backup + 5-24 VDC
	2. 19000mAh replaceable Li-SOCL ₂ battery
Installation	Wall or Pole Mounting

Ordering Information

Model	Power Supply
	1. Solar powered (5V, 1W)
UC501-868M	2. 2 × 2550mAh chargeable battery
	3. 5-24 VDC powered by M12 connector
UC502-868M	19000mAh replaceable Li-SoCl ₂ battery

Remark:

"-915M"/"-868M"/"-470M" in the model refers to different LoRaWAN® Frequency in option for different countries/regions, (e.g.)

"-915M": KR920/AS923/AU915/US915

"-868M": IN865/EU868/RU864

"-470M": CN470











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