

Indoor IP30 LoRa Node Controller



Build a Smarter, Connected World

PLANET LN1152 is an indoor LoRa node controller used for data acquisition from multiple sensors. It contains different I/O interfaces including analog inputs, digital inputs, relay outputs and serial ports to simplify the deployment and replacement of LoRaWAN networks. Besides, the LN1152 can trigger multiple conditions and actions without a network. With its industrial design and IP30 metal case, the LN1152 is widely used in indoor applications like smart industries, building automation, etc.

LoRaWAN-based Controller with Rich Industrial Interfaces

The LN501 LoRaWAN Controller with built-in multiple industrial interfaces connects to all types of sensors, meters and other appliances. It also bridges Modbus data between serial and Ethernet network via LoRaWAN. The LN1152 supports LoRaWAN class C protocol to be in full compatibility with standard LoRaWAN gateways including PLANET LCG-300 series. It is ideal for large-scale IoT application deployments, such as projects for building automation, smart metering, HVAC system, etc. With multiple interfaces, LoRaWAN Controller can perfectly help retrofit legacy assets into IoT enablement.

- RS232
- RS485
- GPIO

Highlights

- Easy to connect with multiple wired sensors through GPIO/RS232/RS485 interfaces
- Ultra-wide-distance transmission up to 10km with line of sight
- Triggers multiple 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

Specifications

Product	LN1152	
Wireless Transmission		
Technology	LoRaWAN	
Antenna Connector	× 50 Ω SMA Connectors (Center Pin: SMA Female)	
Frequency	LN1152-868: IN865, EU868, RU864 LN1152-915: US915, AU915, KR920, AS923	
Tx Power	16dBm(868)/20dBm(915)	
Sensitivity	-147dBm @300bps	
Work Mode	OTAA/ABP Class C	
Data Interfaces		
Interface Type	3.5mm 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)
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	
Ingress Protection	IP30	
Operating Temperature	-40°C to +70°C	
Relative Humidity	0% to 95% (non-condensing)	
Dimensions	79 × 60 × 24 mm	
Installation	Desktop, Wall mounting	
Standards Conformance		
Regulatory Compliance	CE, FCC	

Ordering Information

LN1152-868	Indoor IP30 LoRa Node Controller (RS232, RS485, DI, Relay, and Analog Input, EU868 Sub 1G)
LN1152-915	Indoor IP30 LoRa Node Controller (RS232, RS485, DI, Relay, and Analog Input, US915 Sub 1G)

Related Products

LCG-300	Industrial LoRaWAN Gateway with 5-Port 10/100/1000T
LCG-300W	Industrial LoRaWAN Wireless Gateway with 5-Port 10/100/1000T
LCG-300-NR	Industrial LoRaWAN + 5G NR Cellular Gateway with 5-Port 10/100/1000T
LN501	Outdoor IP67 LoRa Node Controller