

LoRaWAN GATEWAY ROUTER FC-GW001

Version 1.0 (201809)

1. PRODUCT DESCRIPTION

Flux Corp. has launched the IoT base station gateway FC-GW001 based on low power LoRaWAN protocol, which can provide low power, mobile and safe local bidirectional communication service for IoT devices. LoRaWAN can simplify the interconnection of device, user and network, as well as provide standard.

FC-GW001 is designed to be used in long range star network architectures; it can achieve message delivery between front-end device and central network server. FC-GW001 is connected to the network server via standard IP connections while front-end devices use single-hop wireless communication to one or many FC-GW001 gateways.

The communication between front-end devices and FC-GW001 is established by different channels and data rate, which can be negotiated in advance. In order to save the battery life, FC-GW001 can maximise the power saving by implementing ADR(Adaptive Date Rate). With our IoT technology and our base station gateway FC-GW001, users can then have their own IoT control system to achieve customised smart services, which will be widely applied in the fields of smart parking, smart fire-fighting, energy management, asset tracking, smart grid, industry 4.0 and smart agriculture amongst others in the future.

Highlights:

- EU, US, and Asia frequency support
- LoRaWAN compliant
- CE/FCC certified
- IP67



2. TECHNICAL PARAMETERS

LoRa Parameters

	Parameter	Parameter Value	Remarks
1	Working Frequency	EU868 US915 AS926	
2	Transmit Power	Up to +27dBm	
3	Receive Sensitivity	-143dBm	
4	Channels	8 / 1 multi/high-data rate	

Electrical / Physical Parameters

	Parameter	Parameter Value	Remarks
1	Communication Interface	1 x LAN 1 x WAN 1 x WiFi 1 x LTE Module	
2	Input	POE Power Supply with 12V input	
3	Temperature Range	30°C ~ 80°C	
4	Working Humidity	10 % ~ 90%	
5	Antenna	LoRa; WiFi; GPS; 4G	
6	Dimension	288mm * 215mm * 59mm	