

Joymeter



Make It Easy



JOYC-GW200
LoRa Gateway



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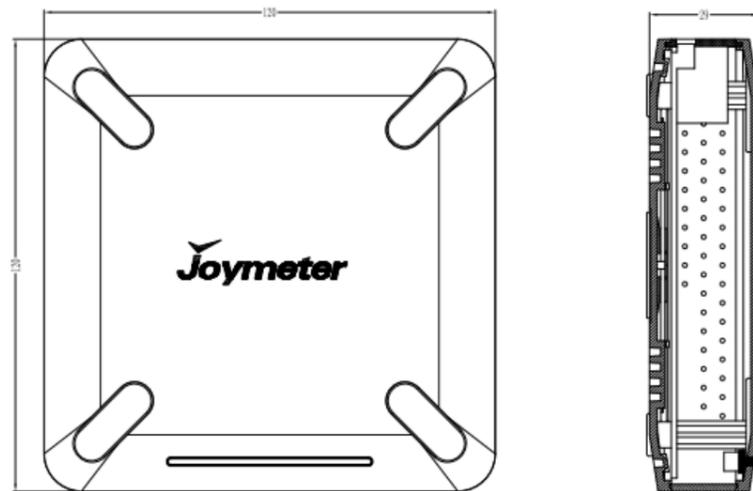
Joy Electronic Technology Co., Ltd

DESCRIPTION

JOYC-GW200 is a LoRa gateway and developed as an indoor communication which is applied to the metering field with complete AMI solution for meter data collection, monitoring and meter control. It developed based on the LoRa technology with low power consumption. It can deal with multi-types of meters and with efficient performance and high security.

FEATURES

- ▶ Ethernet interface
- ▶ WIFI interface
- ▶ Utilize ARM high-performance processor to guarantee the long-term stable operation
- ▶ LoRa based technology realizes meter data collection
- ▶ Bluetooth communication to facilitate the interaction with the mobile APP
- ▶ GPRS upstream communication with server management platform for meter data
- ▶ High protection level, adapt to harsh installation environment
- ▶ Data encryption



TECHNICAL SPECIFICATIONS

Item		Parameter
Power Supply		12V,DC Power
Operating Temperature		-10°C~70°C
Relative Humidity		95%(Max)
Transport & Storage Temperature		-40°C ~+80°C
Electromagnetic Grade		E1
Mechanical Grade		M1
Environment Grade		Indoor Installation
Standard Compliance		LoRaWAN
Interface & Communication	LoRa	470-510 MHz (Customizable), 10dbi
	GSM/GPRS	880-960 MHz / 1710-2700 MHz,3dbi
	Bluetooth	2.4G-2.5G,8dbi
	WIFI	IEEE 802.11b/g/n, 2.4GHz
	Ethernet	TCP/IP,UPD
LoRa Specification	Band width	125KHz
	TX Power	19±1 dBm
	Data Rate	400bps ~ 11Kbps
	Max Loading meter quantity	1000 meters (once transmission/h)
	Max communication distance (km)	1(building);4 (rural area)
Functions		Terminal devices entry network control
		Receive meter data and transfer data to server
		Receive server commands and transfer to meters
		Control time gap to avoid conflicts
		Meter clock synchronization
		Meter alarm report
Construction		IP42