Joymeter

Make It Easy

JOYC–GW100
LoRa Gateway

CE MID | KEMA | LoRa | STS ASSOCIATION | TUV SUD | dlms COSEM Compliant | OMS | CMIS | ISO ISO9001 | M-Bus wireless
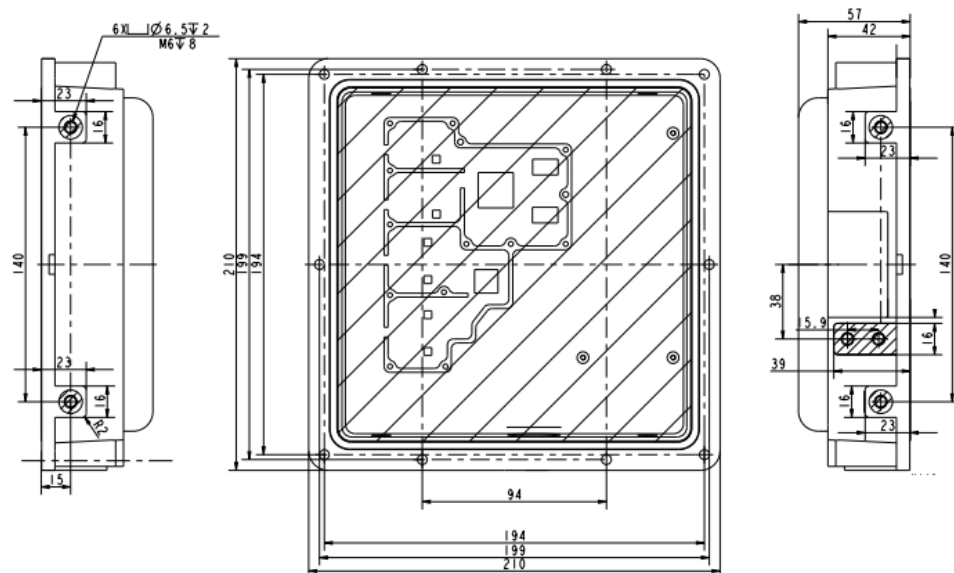
Joy Electronic Technology Co., Ltd

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DESCRIPTION

JOYC-GW100 LoRa Gateway 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 and with long range communication distance and low power consumption. It can deal with big quantity of meters and with efficient performance and high security.

FEATURES

► Reserved Ethernet interface

► Reserved SD card expansion storage

► 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

► GPS satellite positioning module to report the accurate location information

TECHNICAL SPECIFICATIONS

Item		Parameter
Power Supply		12V,DC Power
Operating Temperature		0℃~70℃
Relative Humidity		95%(Max)
Transport & Storage Temperature		-40℃~+70℃
Electromagnetic Grade		E1
Mechanical Grade		M1
Environment Grade		A (Outdoor 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
	GPS	1.5754 GHz / 1.610 GHz,3dbi
	Ethernet *	Reserved
LoRa Specification	Band width	125KHz
	TX Power	19±1 dBm
	Data Rate	400bps ~ 11Kbps
	Max Loading meter quantity	10000 meters (once transmission/h)
	Max communication distance (km)	3(building);10 (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
		Gateway location report
		Meter clock synchronization
		Meter alarm report
Construction		IP65