))) JOYMETER

Make It Easy

JOYC-GW100

LoRaWAN Gateway

CE MID · KEMA · LoRa · STS ASSOCIATION · TÜV SÜD · dlms COSEM Compliant · OMS · CYMS · ISO ISO9001 · M-Bus wireless
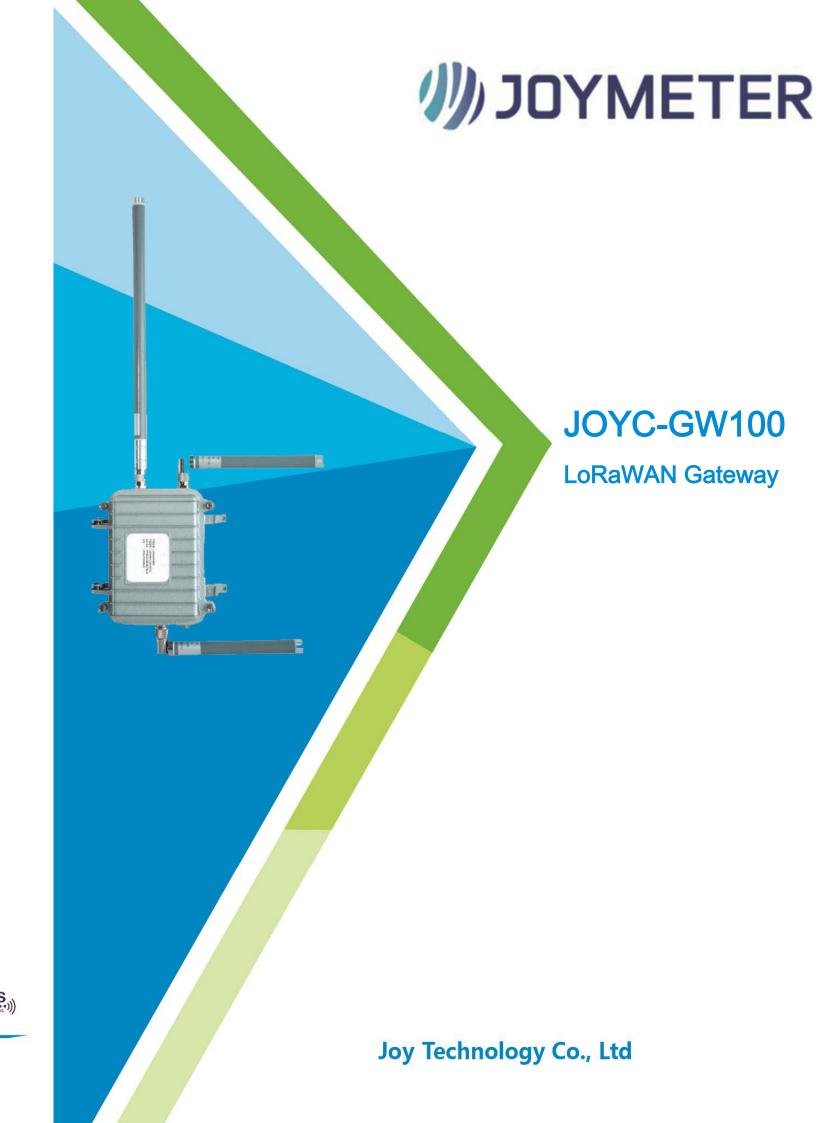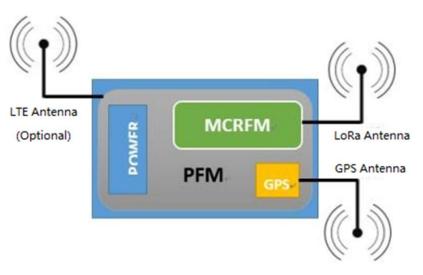
DESCRIPTION

JOYC-GW100 is a LoRaWAN gateway, which integrates downlink module of LoRaWAN and uplink module of 4G and/or Ethernet. JOYC-GW100 is designed to handle the data collection from standard LoRaWAN devices such as electricity meters, water meters, heat meters and gas meters etc. that have standard LoRa interface. With JOYC-GW100, it helps users more competitive in M2M and IoT application.

In addition, JOYC-GW100 is light and modular design that makes it much easier for operator to deploy. Quick installation is possible when the installation components ready in the field, and the configuration and debug could be done remotely or domestically via web.

FEATURES

- ► Modular design
- ► LED status indication for site diagnosis
- ► Independent power supply
- ► Optional specialized installation plate
- ► Waterproof for outdoor installation

- ► Optional uplink ports
- ► GPS timing and positioning
- ► Robust design with metal enclosure
- ► Protection of lightning arrestor
- ► Event reporting

Gateway Structure

TECHNICAL SPECIFICATIONS

Item		Parameter
Power Supply		DC12V
Uplink		Ethernet / 4G
Downlink		LoRa
LoRaWAN Standard		LoRaWAN Specification 1.02
LoRa Specification	Frequency	470-510MHz, 433MHz
	Max. transmitting power	25±1dBm
	Receive sensitivity	-139.5dBm@BW125KHz, SF12
	Channels	8
LoRa Communication Distance		≥5km (rural)
		1~3km (city)
Peak Power		15W
Timing and Positioning		GPS/GLONASS
Operating System		Linux
CPU		Cortex-A8@1GHz
Data Storage	RAM	RAM: 512M
	ROM	ROM: 8GB
Ethernet IP		Dynamic/Static allocation
4G System		LTE FDD: B1/B3/B8
		LTE TDD: B38/B39/B40/B41
		WCDMA: B1/B5/B8/B9
		GSM/EDGE: B3/B8 (Optional)
SIM Card		Micro SIM
Antenna Type		FRP
Configuration		Domestic or remote web access
Installation Plate		Iron(Optional)
Installation Position		Wall-mounted/Pole-holding
Installation Environment		Outdoor
Meter Life		8 years (read data hourly)
Protection		IP67
Dimension, mm		215×180×80
Weight, kg		3 (including accessories)
Limit of Working Temperature		-40~85 ℃

*NOTE: LoRa antenna and installation plate are not included in the gateway package. It could be purchased independently.