

# GU Series Wireless Gateways

The GU series wireless gateways are industrial-grade devices designed to seamlessly integrate with wireless sensors for data acquisition and transmission. Serving as a communication bridge, these gateways facilitate the real-time transfer of sensor data to a centralized monitoring platform. These gateways are engineered to manage wireless sensor networks efficiently. By optimizing network connections, the gateways enhance overall performance and stability, allowing for seamless collection and transmission of accurate, real-time data. With their rugged design, they ensure reliable and stable operation across various demanding industrial environments, making them ideal for large-scale wireless sensor deployments.

The GU100P, GU100S, and GU100X models are Bluetooth gateways compatible with all our Bluetooth sensors. The GU100P serves as the standard gateway, while the GU100S adds support for third-party Modbus sensors through its RS485 interface. The GU200-L and GU200X-L are LoRa gateways that support all our LoRa sensors. The GU100X and GU200X-L models are designed for explosive-proof applications, meeting the stringent safety requirements for hazardous environments.

The GU series features multiple communication interfaces, including Ethernet, 4G, 5G, Wi-Fi6, RS485, and CAN, and supports various transmission protocols such as MQTT, HTTP, and Modbus. This flexibility enables easy integration with cloud platforms, central servers, and industrial control systems, while also supporting bidirectional communication between sensors and user systems.



## Features and Advantages

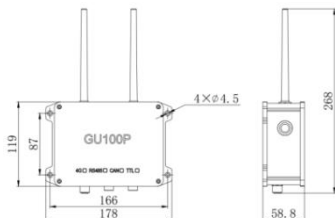
- Reliable** → Data acknowledgment, retransmission (resume from interrupted transmission), and reliable data transmission, even for large numbers of sensors and long waveform data.
- Flexible** → Multiple communication interfaces and protocols for versatile integration.
- Long Distance** → Bluetooth line-of-sight distance up to 300m with sensors and 600m with relays or sensors with enhanced Bluetooth. LoRa line-of-sight distance up to 3000m with sensors.
- Easy-to-use** → User-friendly web interface for easy configuration, monitoring, and management.
- Open** → Open API for seamless integration with diverse systems and platforms, including cloud platforms, central servers, and industrial control systems (ICS) such as PLCs, DCS, and SCADA systems.
- Ruggedized** → Waterproof, dustproof, shockproof, corrosion-resistant, and intrinsically safe; suitable for harsh industrial environments.
- Accessible** → Remotely accessible anytime, with automatic alarm and maintenance-free operation.
- Convenient** → Bluetooth compatible and can be connected via mobile app.

## Product Options

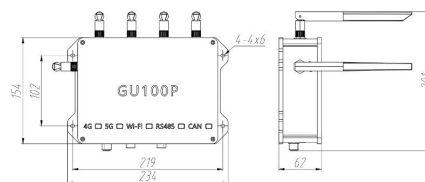
Product Model	Communication	RS485 / CAN	4G	Wi-Fi / 5G
<b>GU100P</b>	Bluetooth	Optional (Uplink)	Optional	Optional Wi-Fi or 5G
<b>GU100S</b>	Bluetooth	<b>RS485</b> Included (Downlink)	Optional	Optional Wi-Fi or 5G
<b>GU100X</b>	Bluetooth	Optional (Uplink)	Optional	Optional Wi-Fi
<b>GU200-L</b>	LoRa	Optional (Uplink)	Optional	Optional Wi-Fi
<b>GU200X-L</b>	LoRa	Optional (Uplink)	Optional	Optional Wi-Fi

## Specifications

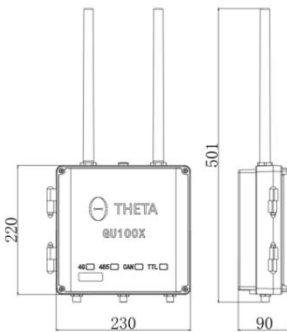
Product Model	GU100P	GU100S	GU100X	GU200-L	GU200X-L
Wireless Sensor Network	Bluetooth 5.0; line-of-sight distance up to 300m with sensors and 600m with relays or sensors with enhanced Bluetooth			LoRa; line-of-sight range 3000 meters	
Wired Sensor Interface	-	Modbus/RS485	-		
WAN Communication	100M Ethernet 4G (optional) 5G/Wi-Fi6 (optional) RS485/CAN (optional)	100M Ethernet 4G (optional)	100M Ethernet 4G (optional) RS485/CAN (optional)	100M Ethernet 4G (optional) RS485/CAN (optional)	
Number of Nodes	64 (including gateway)				
Protocols	TCP/IP, DHCP, NTP, MQTT, HTTP, Modbus RTU, Modbus TCP, CAN				
Power Supply	DC12-24V; 5W				
Interfaces	Ethernet: 4pin-M12; Power and RS-485: M12				
Antenna Options	Rod antenna, suction-based antenna, fiberglass antenna				
Switch	Power on and off				
Indicator	Steady on, Flashing, Steady Off				
Dimensions	178 x 119 x 59mm (without 5G/Wi-Fi6) 234 x 154 x 62mm (with 5G/Wi-Fi6)		230 x 220 x 93mm		
Weight	1.0kg (without 5G/Wi-Fi6) 1.5kg (with 5G/Wi-Fi6)		2.75kg		
Operating Temperature	-40~85°C				
Operating Humidity	10%~90% RH				
Enclosure	Metal				
Ingress Protection	IP67				
Explosion Protection	-	-	EX ia IIC T6 Ga Ex II 1G Ex ia IIC T6 Ga (ATEX)	-	EX ia IIC T6 Ga Ex II 1G Ex ia IIC T6 Ga (ATEX)
Mounting	Adaptor board + expansion screw (on cement wall ) Adapting plate + stainless steel tie (on pole or rod) L-shaped bracket (on angle steel) Adaptor board + magnet (on steel wall) Adaptor board + guide rail bracket (on guide rail)			Adaptor board + expansion screw (on cement wall ) Adapting plate + stainless steel tie (on pole or rod) L-shaped bracket (on angle steel)	



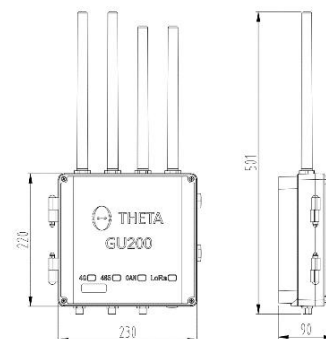
GU100P/GU100S  
(without 5G/Wi-Fi6)



GU100P  
(with 5G/Wi-Fi6)



GU100X



GU200-L/GU200X-L