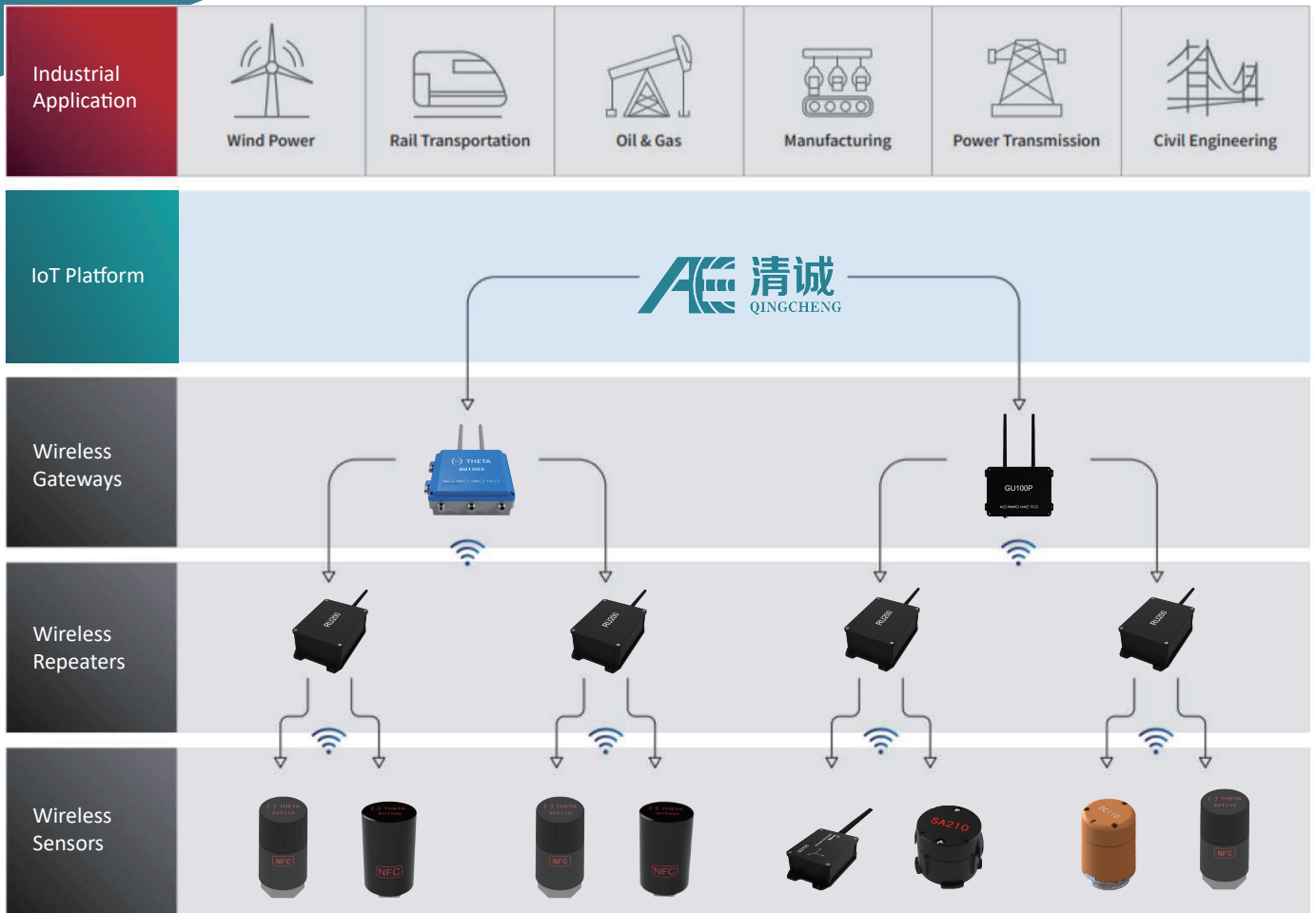# GU SERIES

WIRELESS GATEWAYS

GU series gateway is a part of our proprietary wireless sensor network based on Bluetooth technology. It is designed to achieve ultra-low power consumption across the entire network, ensuring long-lasting sensor operation. It offers exceptional resistance to interference and boasts a high signal-to-noise ratio, ensuring stable and reliable communication. GU has been operating reliably and stably in various demanding industrial environments, providing a dependable foundation for the large-scale deployment of wireless sensors.

GU series wireless gateway serves as the core device in the network, responsible for coordinating and managing the wireless nodes. It efficiently manages connections between nodes, ensuring stable communication, and handling enrollment and withdrawal of nodes. By optimizing network connections, the gateway enhances the overall performance of the wireless sensor network, ensuring data transmission stability and real-time capabilities.

The gateway also manages and connects wireless sensors, facilitating protocol conversion between sensors and the central server or cloud platform. Equipped with multiple communication interfaces, including Ethernet, 4G, RS485, CAN, and supporting transmission protocols like MQTT, HTTP, Modbus, and more, it efficiently transfers sensor data to the cloud while receiving and transmitting user instructions back to the sensors. The gateway is designed with open API, allowing flexible integration with various systems and enabling a wide range of data application control scenarios.
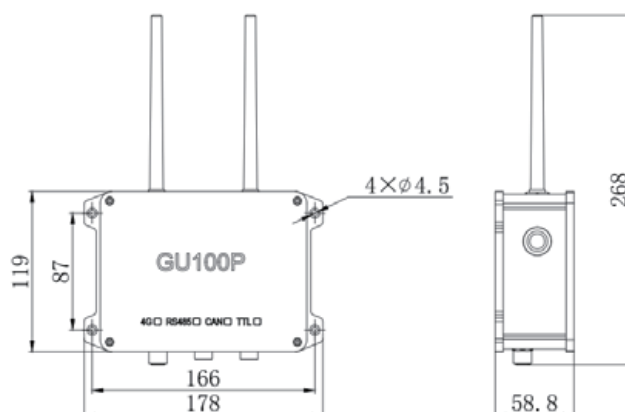
Industrial Application	Wind Power	Rail Transportation	Oil & Gas	Manufacturing	Power Transmission	Civil Engineering

GU SERIES
WIRELESS GATEWAYS

SPECIFICATIONS

Product Model	GU100P
Wireless Sensor Network	2.4GHz Wireless Sensor Network (Bluetooth 5.0) Line-of-sight range: 300 meters with sensor node and 600 meters with repeater node
Number of Nodes	64 (including gateway)
Wired Sensor Interface	Supports third-party Modbus/RS485 sensors
WAN Communication	100M Ethernet; 4G (optional); RS-485/CAN (optional)
Protocols	TCP/IP, DHCP, NTP, MQTT, HTTP, Modbus RTU, Modbus TCP, CAN
Power Supply	DC12-24V; 5W
Interfaces	Ethernet: 4pin-M12; Serial: RS-485/CAN/TTL (optional)
Antenna Options	Rod antenna, suction cup antenna, fiberglass antenna
Switch	Power on and off
Indicator	Steady on, Flashing, off
Dimensions	178mm x 119mm x 59mm (L x W x H)
Weight	1.0kg
Operating Temperature	-40~85°C
Operating Humidity	10%~90% RH
Enclosure	Metal
Ingress Protection	IP67
Mounting	Bolt fastening