

**Overview:**

GAORFID SKU# 217031 IP54 rated water/dust proof Gateway operates at 2.45GHz, 217031 is a Bluetooth low energy (BLE) to 3G/4G cellular/LTE, Wi-Fi, Ethernet, PoE connectivity gateway or signal receiver. The 217031 gateway collects the data from GAORFID's iBeacon, Eddystone, BLE sensors and any other BLE devices, and then sends to the local server or remote cloud server by MQTT/HTTPS protocol over 3G/4G, Ethernet, Wi-Fi or PoE. It is easy to configure the 217031 gateway via a web/phone UI, and it supports remote configuration. Its slim design allows itself to be used in indoor environment.

**Main Features:**

- BLE5.0 super Long reading distance Feature, up to 300 meters (985 feet) with tags
- Open protocol: Local server or HTTPS/MQTT to cloud
- Bi-directional: reads advertisement data and sends command
- Configuration: Web portal or phone app
- Interfaces: Built-in Ethernet/PoE/Wi-Fi or optional USB dongle of 3G/4G/LTE module
- Power: 5V DC or Ethernet PoE(802.3af)
- BLE chip: nRF528xx serie
- With built-in 3dBi FPC antenna
- Up to 150 Mbps PHY data rate
- Built-in RTC and NTP support
- 1T1R 2.4GHz frequency band
- Supports 802.3af PoE standard
- Supports firmware upgrade Over-the-Air
- Supports remote configuration
- POE status LED indicator
- Data usage monitoring
- Built-in RSSI (Radio Signal Strength Indicator) feature



**Applications:**

- ❖ iBeacon / Eddystone / other BLE tag receiver
- ❖ BLE sensor reader / receiver
- ❖ Asset tracking
- ❖ Access control management
- ❖ Advertisement promotion
- ❖ Indoor location and position
- ❖ IoT related
- ❖ Active RFID



**Technical Specifications:**

Size/Weight	17.3 x 9 x 4.5cm / 150g
Power supply (Vcc)	DC 5.0 (+/- 5%)
Operating / Storage temperature	-25°C to 70°C / -25°C to 85°C
Humidity	Max 95%, Non condensing, relative humidity
Communication Interfaces	Built-in Wireless IEEE 802.11b/g/n , Update to 300Mbps, supports WPA/WPA2, 802.1x enterprise EAP; Built-in Ethernet PoE
Data rate	IEEE 802.11b, 1-11MbpsIEEE 802.11g, 6-54MbpsIEEE 802.11n(2.4GHz), 7.2-72.2 Mbps
Frequency band	2.400 – 2.484 GHz
Reading Distance with BLE Beacons	up to 300 meters (Tags dependent)
RF Power Accuracy	+/- 4 dB
Receiver Sensibility	-108 dBm @250kbps, 0.1% BER-93 dBm @1Mbps, 0.1 %BER
Maximum Received Signal Strength at <0.1% PER	0dBm
Frequency Deviation	+/-250 kHz @BLE
Scanning & concurrently process	300 BLE tags per second



<p><b>GAO Group</b></p> <p><a href="http://GAORFID.com">GAORFID.com</a></p> <p><a href="http://GAOTek.com">GAOTek.com</a></p>	<p>Toll Free (USA &amp; Canada)</p> <p><b>1-877-585-9555</b></p> <p>All Other Areas +1 (289) 660-5590</p> <p><a href="mailto:sales@GAORFID.com">sales@GAORFID.com</a></p>
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