# Picogate G200

## CRAFTED WITH FLEXIBILITY IN MIND

R9 Technology's Picogate is a compact wireless IoT gateway targeted at low-cost data collection applications. The Picogate was designed to take advantage of the latest trends in wireless technology to achieve an easily deployed, long-range, low-power sensor network. Device antennas are all integrated internally for a clean, worry free installation.

## MULTI-STANDARD SENSOR INTERFACES

R9's Picogate was designed with deployment flexibility in mind. The 2.4 GHz software-defined radio (SDR) can be configured for BLE smart, Zigbee, or RF4CE.  For extended range, utilize the Sub 1 GHz wireless interface. Picogate allows customers to mix and match sensor interfaces depending on application needs.

## DUAL-BAND SENSOR NODE NETWORK

Dual-band operation supporting 2.4 GHz or 915 MHz can be implemented for the sensor node network. This allows for maximum flexibility in sensor node selection and deployment.

## CELLULAR CONNECTIVITY

Picogate is available with a 4G LTE-Cat1 radio and has future support for Cat M1 and NB-IoT radios.

## EASY TO OPERATE

Picogate supports local Bluetooth connectivity to query gateway status information (smart phone  or tablet). Data services system configuration and administration is implemented using a browser on your PC or  browser-enabled device.

# Features:

- Data service:  LTE-Cat 1 (5Mbps Up / 10Mbps Down)
- Integrated cellular antenna and optional external cellular antenna connector(MMCX)
- Software-defined radio (SDR) wireless chipsets allow for support of multiple communications standards
- Integrated 915 / 868 MHz sensor node interface for maximum wireless range;  Optional 915 MHz. external antenna can be utilized
- 915 MHz sensor node to gateway data rate 5 Kbps at 2km (affected by device orientation and local conditions)
- Integrated 2.4 GHz sensor node interface allows for maximum flexibility in sensor selection and operation
- AES128 encryption providing secure sensor node communication
- 2.4 GHz local Bluetooth link to query gateway status information (smart phone or tablet)
- 128Mbit FLASH storage memory for local data logging applications
- USB 2.0 high-speed port (cable option)
- RS232 / serial port (cable option)
- Data service SIM card port (4FF)
- External green/red bi-color LED indicator for unit operation status
- Piezo-based speaker provides audible alarm/alert indication
- Integrated GNSS/GPS solution for location services; Optional external GNSS/GPS antenna connector.
- Includes internal battery backup, rechargeable Li-ion polymer battery (2600 mAH);  Continues operation in power outage conditions
- Supports sleep mode for low power operation, ideal for remote applications
- Power input: 12V DC power supply (included); As an option, can be powered through USB connector, 5V DC
- $0^{o}$C to $50^{o}$C temperature environment operating range
- Overall dimensions: 157 mm length x 91 mm width x 47 mm thickness
- IP65 rated external enclosure

Cellular Gateway
Model: G200

## ABOUT R9 TECHNOLOGY

R9 Technology provides the necessary hardware, embedded software, and cloud infrastructure to enable quick and easy deployment of IoT products. We focus on cost-effective, small form factor (SFF), and low-power solutions.  R9 Technology can customize any of our products to fit your specific needs. Our experienced team members have expertise in telecom and cellular wireless technologies, and wireless local area network technologies, such as Bluetooth, BLE (Smart), WiFi, Zigbee, and others.

## CONTACT US

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