

RFN-Gate433T-4GQ-zyz
RFN-Gate868T-4GQ-zyz
RFN-Gate915T-4GQ-zyz

Data Sheet

Rev. 1.8 – 24/7/2019



Front View



Back View



1. Overview

The RF-Gate is a complete RF Terminal solution for RF 433/915 Mhz applications.
Based on Quectel Cellular modems and CC1310 radio.

2. Hardware Interface Description

2.1 Main features of the RF-Gate

Feature	Implementation
Incorporates combination of Short Range and CELLULAR modems, as well as GPS and WiFi	The SMART Linux module handles all RF CELLULAR GPS processing
Product Modem	<ul style="list-style-type: none"> • Quectel BG96 Cellular Modem • CC1310 Short Range Radio • GPS modem (on request)
Power supply	Single supply voltage 8V DC to 55V DC connector 4 pin micro-fit 3mm
GPIO	1x Open collector drive 100ma 1x RELAY 1A 30V 2x Inputs opto couplers, 0-55v 2 analog inputs 0-30V
Communication	1x RS232, connector D-Type 9pin (DB-9) 1x RS485
Antennas	RF, CELLULAR, (GPS optional) via SMA connectors
Processor	<ul style="list-style-type: none"> • Arm Cortex
Programming	<ul style="list-style-type: none"> • C



2.1.1 Product Family

Product -> Modems	P/N	RF	GPS	Cellular	LAN	WiFi	Linux
		CC1310	L70	xG91	Linkit 7688		
4G+(GPS)+ 433 Radio	RFN-GATE433-4GQ-xyz	433Mhz	V	BG96	-	-	-
4G+(GPS)+ 915 Radio	RFN-GATE433-4GQ-xyz	915Mhz	V		-	-	-
4G+(GPS)+ 868 Radio	RFN-GATE868T-4GQ-xyz	868Mhz	V		-	-	-

Naming convention

x: B for battery installed, 0 no

y: G:GPS, 0 GPS not present

z: SW related

2.2 Hardware block diagram

2.2.1 Option: RFN-GATE433-4GQ-xyz



