Rombo RISE

RISE LoRaWAN Gateway

LoRa Interfaces:
1 x SX1308 + 2 x 1257 LoRa Transceiver
1 x SX1276 LoRa Transceiver
1 x GPS module for LoRa localization

General Interfaces:
10M/100M RJ45 Ports x 2
1 x 2.4G WiFi (802.11 bgn)
1 x USB host port
1 x Mini-PCIe Interface
Power Input: 12v, 1A

RISE LoRaWAN Gateway lets you bridge LoRa wireless network to an IP network via WiFi, Ethernet, 3G or 4G cellular. The LoRa wireless allows users to send data and reach extremely long ranges at low data-rates. The gateway is fully compatible with LoRaWAN protocol. It includes a SX1308 LoRa concentrator and a SX1276 LoRa transceiver, the SX1308 provide 10 programmable parallel demodulation paths.

The SX1276 acts as TX channel so the SX1308 won't be blocked during TX. This provide higher capacity compare with a standalone SX1308 concentrator solution.

The gateway has a built-in GPS module, the GPS module is connected to the SX1308 chip directly for LoRa localization solution for low power / indoor use.

Features

OpenWRT system
Managed by Web GUI, SSH via LAN or WiFi
LoRaWAN Gateway
Emulates 49x LoRa demodulators
10 programmable parallel demodulation paths
SX1276 base seperate TX path

Applications

Smart Buildings & Home Automation
Logistics and Supply Chain Management
Smart Metering
Smart Agriculture
Smart Cities
Smart Factory