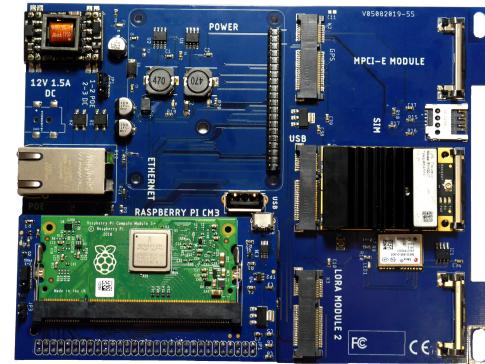


## IoT Smart LoRa Gateway Description



LoRa (Long Range) is the smart, long-range, wireless transmission technology that is enabling the future of IoT (Internet of Things). It's very low power but is only suitable for very small amounts of data. Making it ideal for sensors such as weather monitoring, air quality etc

Our IoT Smart LoRa Gateway allows you to set up an industrial LoRa Gateway with ease at a cost effective price compared to other solutions. Pre-loaded with our software you can have your gateway running in minutes rather than hours.

The IoT Smart LoRa Gateway utilises the Raspberry Pi Compute Module 3, RAKWireless RAK833 mPCIe LoRa gateway concentrator and optionally a 4G Module to provide a customisable solution for your requirements.

**It's available in two different frequency variations:**

**868 MHz    915 MHz**

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## Features

- Fully soldered and assembled, plug in and power up and you're ready to go! No compiling of software required
- Nebra LoRa Gateway Controller Software - Provides an easy to use user interface to setup and configure your gateway within minutes.
- Utilizes the Raspberry Pi Compute Module 3 bringing stable software support and updates at a higher industrial level of reliability over a normal Raspberry Pi.
- Power Over Ethernet - Power your gateway using any POE switch or injector compliant with 802.3af
- DC Power - Or power the gateway with a 12V 1.5A Power Supply
- Dual LoRa Card Support - Supports up to two LoRa cards for either redundancy, dual region or 16 channel support.
- Optional 4G Module - Add 4G Backup for when uptime is crucial, our software can switch between both 4G and LAN within 1 Minute of connectivity loss.
- Fits in our IP67 Outdoors Case - Ideal for running a gateway outdoors.

## Specification

- Powered By Raspberry Pi Compute Module 3+
  - Quad Core ARM Cortex-A53 1.2GHZ
  - 1GB DDR2 RAM
  - 8GB EMMC Flash Memory
- Dual LoRa Module Support
  - Supports both single and dual configurations
  - Redundancy & Multi Frequency modes
  - RF Interface over a standard U.FL connector (Hirose U.FL-R-SMT) with an impedance of 50. The RF port supports both Tx and Rx
- WAN Connectivity
  - Supports IE 48V POE Injectors & Switches
  - Provides 100Mbps Ethernet to CM3+
  - USB Socket for USB Wi-Fi Adapter
  - 4G Module Support
- Efficient Power Consumption
  - Peak draw of 18W
  - Power via 12V 1.5A or POE

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**Note:** All features and specifications mentioned are to be confirmed before release and are subject to change