FINESTRAMiner

The miner with a view!

Model (E) CE Certified
Datasheet

FINESTRA
Miner

FINESTRAMiner (E) **Datasheet** CE

Hotspot Details

➔   FinestraMiner is a high performance, best-in-class hotspot for the Helium Network brought to you by the folks at Smart Mimic, and designed in California!

➔   Wrapped in a sleek, ready to use, install ready design, FinestraMiner not only delivers on form but on function.

➔   Finestra Miner delivers near non-stop mining thanks to its high-performance processor and a resource-optimized operating system.

➔   FinestraMiner supports LongFi™ Technology.

➔   The available Helium App allows for simple setup on both iOS and Android devices.

➔   Comes Wifi and Ethernet.

More About

➔   FinestraMiner addresses the desire of everyone – not just blockchain geeks and RF experts – to be part of the People's Network. Our lovingly crafted, easy-to-use, consumer-ready hardware requires no special setup, mounting, tweaking to get great performance. Just power up and get mining!

➔   FinestraMiner's reusable adhesive base lets you affix it to smooth surfaces – the side of a bookshelf or a wall or even a window pane. When you give FinestraMiner a view, you ensure greater coverage than if it was set on a table or in the back of the room. And with a power cord, no outlet is far away.

Feature Highlights

➔ Processing Unit: Raspberry Pi 4

➔ 4GB RAM or better

➔ LoRa® Frequency band support: EU868

➔ Network Connectivity: Wi-Fi, Ethernet

➔ Device Connectivity: Bluetooth 5.0

➔ Based on LoRa Concentrator Engine: Semtech® SX1302

➔ Security: ECC608 Crypto Cell Authentication

Specifications

Overview

The overview covers the FinestraMiner hotspot details and system structure.

Hotspot Details

System Structure

The FinestraMiner is the heart of all LoRa-based radio communication devices. It receives and transmits radio messages. The embedded host system handles the processing of radio communications as well as protocol-related duties (Raspberry Pi). Figure 1 depicts the FinestraMiner's system structure. Note: Ethernet option in select models.
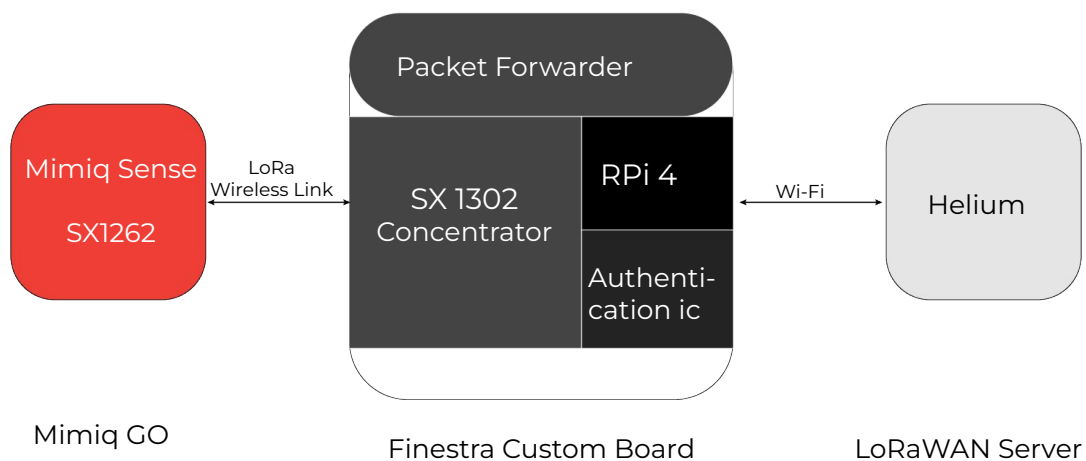
Figure 1: FinestraMiner System Structure

Hardware

Dimensions

The outer dimensions of Finestra Miner are: 4.3 x 4.3 x 1.6 in (110 mm x 110 mm x 40 mm)

Figure 2: Device Dimensions

Interfaces

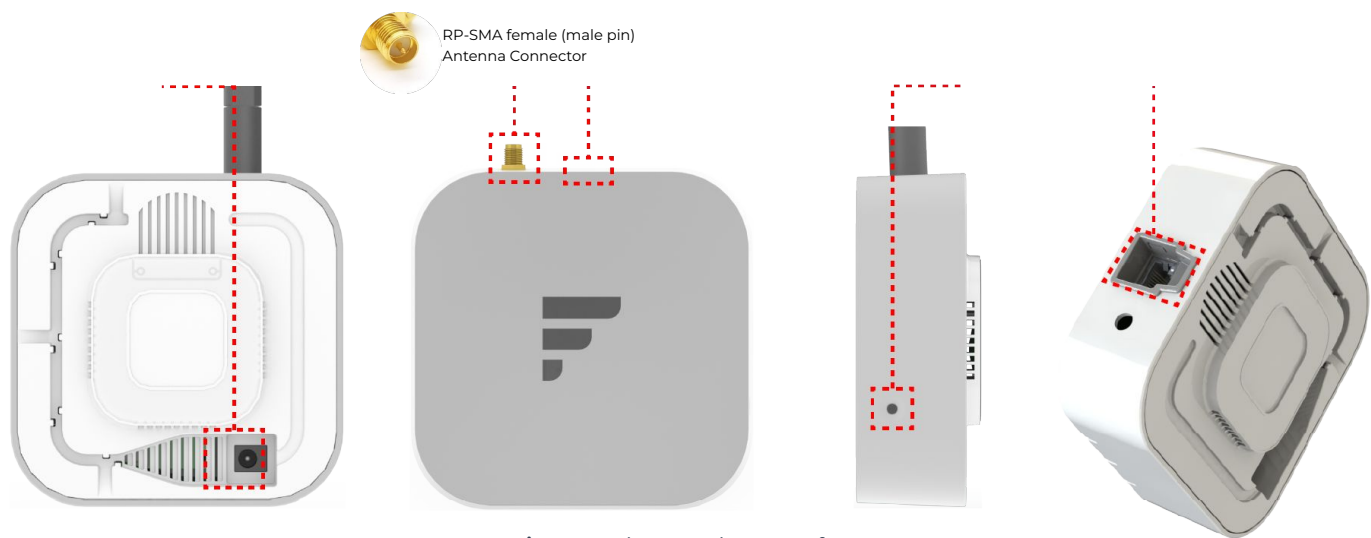RP-SMA female (male pin) Antenna Connector

Figure 3: FinestraMiner Interfaces

RF Characteristics

Operating Frequencies

The FinestraMiner supports all LoRaWAN frequency channels as below.

Region	Frequency (MHz)	Certification Status
Europe	**EU868**	**Certified CE**
Other frequencies supported by radio.		Specific models certified for regions are marked as such.
North America	US915	Certified FCC
Canada	US915	Certified IC
Australia	AU915	In-progress
Korea	KR920	TBA
India	IN865	TBA
Russia	RU864	TBA
Asia	AS923	TBA

LoRa RF Module Characteristics (Mfr.)

Transmitter RF Characteristics

The FinestraMiner has excellent transmitter performance. To use your miner at its maximized potential, it is highly recommended to apply the specified power level configuration . By doing so, your miner will sustainably operate under normal RF output power levels and current consumption. The following table gives conducted RF output power of the WM1302.

Frequency	SF / BW	Sensitivity	Unit
EU868 (only CE certified model)	7 / 125kHz	-124	dBm
	12 / 125kHz	-139	dBm

Included Power Supply & Antenna (for CE)

Parameter	Typical
Antenna Specification	Omni-directional Antenna 2.8 dBi
Operation Voltage	5V
Max Current	3A
Power	15W
Pin compatibility	EU and UK

Environmental Requirements

Parameter	Min	Typical	Max
Operation Temperature Range	-35 °C -31°F	+25 °C +77°F	+75 °C +167°F

Contact

https://mimiq.io/contact-us/

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