



SenseCAP M1 LoRaWAN Indoor Gateway - EU868

EU868

CE

Powered by
longfiTM





PRODUCT DESCRIPTION

SenseCAP M1 is a high-performing, ready-to-use LoRaWAN indoor gateway connected to the Helium LongFi™ Network. It is based on Raspberry Pi 4 and embedded with a WM1302/WM1303 (Semtech SX1302/SX1303) LoRa concentrator. It provides built-in BLE, which helps you set up the device in a few simple steps and supports connecting to the internet via Wi-Fi or Ethernet.

FEATURES

- Handy Setup to Helium Network. 6 steps, 5 minutes, ready to go.
- Powered by Mature Hardware Solutions. Raspberry Pi 4(2G/4G/8G RAM) and WM1302/WM1303 (Semtech SX1302/SX1303) baseband Long Range chip.
- Secured and Reliable. Built-in ECC608 crypto chip, high-security authentication, and reliable connectivity.
- Automatic Online Upgrades. Automatic OTA upgrades, without manual operation.
- Remote Diagnosis. Built-in remote diagnostics mechanism, efficient online support.
- 64GB Large Storage. 64GB MicroSD card large storage, extending the lifetime of the gateway, fulfilling the memory requirement of potential upgrade.
- Efficient Cooling Solution. Aluminum enclosure with a heatsink and cooling fan inside, ensuring long-term and stable operation.
- Multiple Accessories. Fiberglass antenna, slider pad for sliding rod installation, and upcoming outdoor enclosure, etc.
- FCC and CE Certificated. Available for personal and commercial use.

APPLICATION

- Hardware Solutions
- Frequency Band Support
- Communication Security
- Automatic Online Updates
- Remote Diagnosis
- Efficient Cooling Solution
- Handy Setup to Helium Network





SPECIFICATIONS

PRODUCT MODEL

Model	SenseCAP M1
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GENERAL PARAMETER

Processor	Raspberry Pi 4 (Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz)
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RAM	2GB / 4GB / 8GB
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Storage	64GB MicroSD Card
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Frequency	EU868 Version: 863MHz ~ 870MHz US915 Version: 902MHz ~ 928MHz
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Sensitivity	-125dBm @125KHz/SF7 -139dBm @125KHz/SF12
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TX Power	Up to 26 dBm
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Antenna Gain	US915: 2.6 dBi EU868: 2.8 dBi
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Antenna Impedance	50 Ohm
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Antenna Radiation Pattern	Omni-Directional
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Wi-Fi	2.4 GHz and 5.0 GHz IEEE 802.11ac wireless
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Bluetooth	Bluetooth 5.0, BLE
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LoRaWAN	Supports Class A, C
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Input Voltage	DC 5V - 3A
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GENERAL PARAMETER

Interfaces	USB Type-C (Power Supply) * 1 Ethernet RJ45 * 1 RP-SMA Female Antenna Connector* 1
Operating Temperature	0°C to 50°C
Relative Humidity	0% - 90% (non-condensing)
Heat Dissipation	Aluminum enclosure, a heatsink, and a cooling fan
IP Grade	IP20
Certification	FCC / CE