



SENSECAP M1

HELIUM/LORA INDOOR GATEWAY



SenseCAP M1 is a high-performing, ready-to-use LoRaWAN indoor gateway powered by the Helium LongFiTM Network, and provides miles of wireless network coverage and data transmission capacity for LoRa/LoRaWAN devices. It provides built-in BLE, which helps set up the device in a few simple steps, and it supports connecting to the internet via WiFi or Ethernet. SenseCAP M1 has US915/EU868 versions with FCC/CE certificates respectively.

Technical Specifications

Processor: Raspberry Pi 4 (Broadcom BCM2711, Quad core Cortex-A72 (ARM v8)
64-bit SoC @ 1.5GHz)

RAM: 2GB / 4GB / 8GB

Storage: 64GB MicroSD Card

Frequency: EU868 Version: 863MHz ~ 870MHz ; US915 Version: 902MHz ~ 928MHz

Sensitivity: -125dBm @125KHz/SF7 ; -139dBm @125KHz/SF12

TX Power: Up to 26 dBm

Antenna Gain: US915: 2.6 dBi ; EU868: 2.8 dBi

Antenna Impedance: 50 Ohm

Antenna Radiation Pattern: Omni-Directional

Wi-Fi: 2.4 GHz and 5.0 GHz IEEE 802.11ac wireless

Bluetooth: Bluetooth 5.0, BLE

LoRaWAN: Supports Class A, C

Input Voltage: DC 5V - 3A

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