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INDUSTRIAL PRODUCT DATASHEET

# SenseCAP Multi-Platform LoRaWAN Indoor Gateway(SX1302-4G) - EU868

The SenseCAP Multi-Platform LoRaWAN Indoor Gateway(SX1302-4G) - EU868 combines open-source LoRaWAN support, multiple network server compatibility, built-in ChirpStack server, PoE, wide-range coverage, and...

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 114993080 | 2026-09-21 10:02:32 | $159.00(Excl. VAT) |



# Overview




The SenseCAP Multi-Platform LoRaWAN Indoor Gateway(SX1302-4G) - EU868 supports multiple LoRaWAN Network Servers, built-in ChirpStack-based network server, local console configuration, and open-source development. It provides PoE, Wi-Fi, Ethernet, and optional cellular connectivity with wide-range coverage and stable performance, along with professional management tools and cloud services for smart agriculture, smart building, environmental monitoring, and other wireless sensing applications.

# Key Features

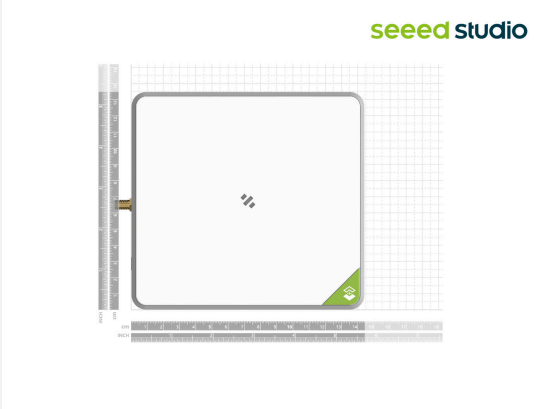
- **Open-Source Support:** Easily customize and develop users own LoRaWAN solutions for seamless integration into their specific use cases. **Check out details here**.
- **Support Multiple LoRaWAN® Network Servers:** Compatible with multiple LNS like AWS, TTN, ChirpStack, etc. via using the Packet Forwarder / Basics™ Station mode.
- **Built-in LoRaWAN Network Server:** Based on Chirpstack, provides a fast and reliable solution for launching a LoRaWAN network.
- **Built-in SenseCAP Local Console for Configuration:** Provides a simple setup experience to configure the device on Web UI through Wi-Fi AP and Ethernet.
- **Support Power-over-Ethernet (PoE):** For users who need to power the gateway on Ethernet instead of an extra power supply cable, the PoE feature is also added to this device, making your deployment more reliable and faster.
- **Wide-range Coverage and Strong Signal:** Provides up to 10km of LoRaWAN® coverage and strong signal, allowing users to send data with extremely long ranges at low data rates.
- **Excellent and Stable Performance:** The gateway is powered by the mature hardware solution MT7628 and Semtech SX1302 baseband Long Range chip. It supports Cellular(optional)、Wi-Fi and Ethernet internet connection.
- **Professional Management Tools and Cloud Services:** Users could easily set up the gateway in a few simple steps via Web Interface. SenseCAP Portal and SenseCAP Local Console are also developed for users to monitor and manage the gateway efficiently and easily.

# Product Gallery










## Specification

| | |
|---|---|
| Processor | MT7628(MIPS24KEc@580MHz) |
| RAM | DDR2 128MB |
| Flash | 32MB |
| Long Range Gateway Chip | SX1302 |
| Channel | 8 |
| LoRaWAN® Protocol | V1.0.3 Class A/Class B/Class C |
| Frequency Plan | IN865/EU868/RU864/US915/AU915/KR920/AS923<br>Note: The listed frequency plans refer to the bands supported by the built-in LoRa chip(SX1302), not all bands available on a single gateway. Please refer to the LoRaWAN® Frequency below for model selection. |
| Long Range Sensitivity | -125dBm @125KHz/SF7 |
| | -139dBm @125KHz/SF12 |
| Long Range TX Power | Up to 26 dBm |
| Antenna | Long Range: 3dBi External Antenna with Base<br>Wi-Fi: Internal Antenna<br>4G Antenna:<br>Main Antenna：3dBi @ PCB Antenna<br>DIV Antenna：7dBi @FPC Antenna |
| Antenna Impedance | 50 Ohm |

| | |
|---|---|
| Wi-Fi | Support 2.4 GHz 802.11 b/g/n |
| Ethernet | 1xRJ45 (10M / 100 M), PoE PD support |
| 4G Band | LTE-FDD: B1/B3/B7/B8/B20<br>LTE-TDD: B38/B40/B41<br>WCDMA: B1/B8<br>GSM: 900/1800MHz |
| 4G Features | Support non-CA Cat 4 FDD and TDD<br>LTE-FDD: Max 150Mbps (DL), Max 50Mbps (UL)<br>LTE-TDD: Max 130Mbps (DL), Max 30Mbps (UL) |
| UMTS Features | Support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA<br>DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL)<br>WCDMA: Max 384Kbps (DL), Max 384Kbps (UL) |
| Input Voltage | DC 12V - 2A<br>PoE (IEEE 802.3 af), 40V-57V DC |
| Interfaces | Ethernet RJ45 * 1<br>RP-SMA Female Antenna Connector * 1<br>Micro SD Card Slot (Future use) * 1<br>USB Type-C (Console) * 1 |
| Management Software | Web |
| Dimension | 143.6x135x34mm (connector not included)<br>150.6x135x34mm (connector included)<br>Package: 340*230*65mm |
| Operating Temperature | -20°C to 55°C |
| Relative Humidity | 0% - 85% (non-condensing) |

| Frequency Band | Switchable Frequency Band |
|---|---|
| EU868 | IN865/RU864 |
| US915 | US915/AU915/KR920/AS923 |
| AS923 | US915/AU915/KR920/AS923 |

# Applications

- **Smart Agriculture**
- **Smart Building**
- **Environmental Monitoring**
- **Other Wireless Sensing Applications**

## Part List

| |
|---|
| SenseCAP M2 Multi-Platform LoRaWAN® Gateway |
| Adapter |
| 3dBi LongRange Antenna |

## Compliance & Logistics




| | |
|---|---|
| HSCODE | 8517629990 |
| USHSCODE | 8517620010 |
| UPC | |
| EUHSCODE | 8471707000 |
| COO | CHINA |

# Resource Links

- https://www.seeedstudio.com/SenseCAP-Multi-Platform-LoRaWAN-Indoor-Gateway-SX1302-4G-EU868-p-5599.html
- Quick Start for SenseCAPGateway&Sensors
- Connect M2 Multi-Platform Gateway to The Things Network
- Connect M2 Multi-Platform Gateway to AWS IoT
- Connect M2 Multi-Platform Gateway to ChirpStack

**Seeed Technology Co.,Ltd.**
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

**Tel:** +86 0755-80695676
**Web:** www.seeed.cc
**Shop:** www.seeedstudio.com