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INDUSTRIAL PRODUCT DATASHEET

SenseCAP M2 Multi-Platform LoRaWAN Indoor Gateway(SX1302) - AS923

The SenseCAP M2 Multi-Platform LoRaWAN Indoor Gateway (SX1302) - AS923 delivers open-source, multi-platform LoRaWAN connectivity with a built-in network server, up to 10km range, and PoE for smart agriculture, building, and...

SKU	UPDATED	PRICE
114992983	2026-10-11 17:16:20	$109.00(Excl. VAT)



Overview



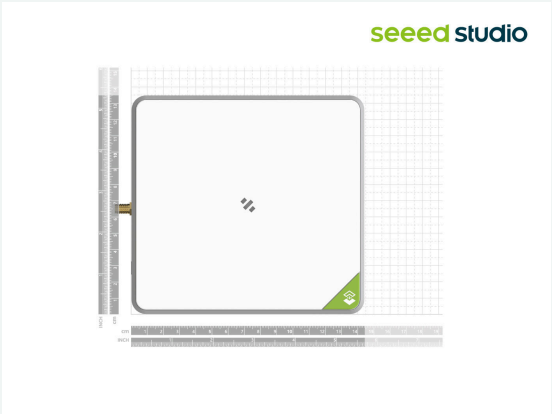
The SenseCAP M2 Multi-Platform LoRaWAN Indoor Gateway (SX1302) - AS923 is powered by the MT7628 and Semtech SX1302 chipset, supporting open-source customization, multiple LoRaWAN network servers (AWS, TTN, ChirpStack), and a built-in ChirpStack server. It offers up to 10km LoRaWAN coverage, PoE, local console configuration, and optional cellular/Wi-Fi/Ethernet connectivity 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 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 Wi-Fi: Internal Antenna
Antenna Impedance	50 Ohm
Wi-Fi	Support 2.4 GHz 802.11 b/g/n

Ethernet	1xRJ45 (10M / 100 M), PoE PD support
Cellular(Optional)	Another version is optional, coming soon
Input Voltage	DC 12V - 2A PoE (IEEE 802.3 af), 40V-57V DC
Interfaces	Ethernet RJ45 * 1 RP-SMA Female Antenna Connector * 1 Micro SD Card Slot (Future use) * 1 USB Type-C (Console) * 1
Management Software	Web
Dimension	143.6x135x34mm (connector not included) 150.6x135x34mm (connector included) 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	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/SenseCAP-Multi-Platform-LoRaWAN-Indoor-Gateway-SX1302-AS923-p-5473.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

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