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INDUSTRIAL PRODUCT DATASHEET

SenseCAP Multi-Platform LoRaWAN Indoor Gateway(SX1302-4G) - US915

SenseCAP Multi-Platform LoRaWAN Indoor Gateway(SX1302-4G) - US915 for smart agriculture, smart building, environmental monitoring, and other wireless sensing applications.

SKU	UPDATED	PRICE
114993079	2026-10-16 10:55:41	$159.00(Excl. VAT)



Overview



The SenseCAP Multi-Platform LoRaWAN Indoor Gateway(SX1302-4G) - US915 supports multiple LoRaWAN® network servers and includes a built-in ChirpStack-based network server, along with open-source customization and SenseCAP Local Console for configuration. It provides up to 10km LoRaWAN® coverage, Power-over-Ethernet, and cellular, Wi-Fi, or Ethernet connectivity for reliable indoor deployment.

Key Features

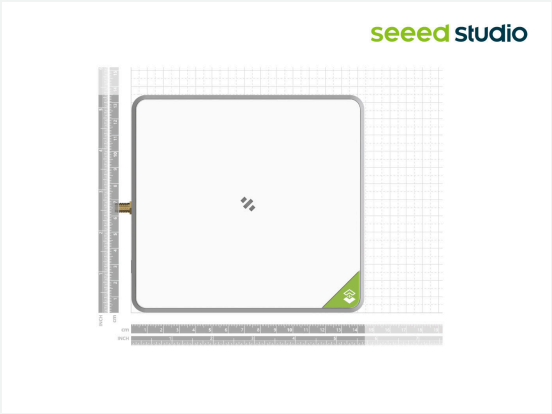
- **Open-Source Support:** Easily customize and develop users own LoRaWAN solutions for seamless integration into their specific use cases. **Check out details here**.
- **Support Multiple LoRaWAN® Network Servers:** Compatible with multiple LNS like AWS, TTN, ChirpStack, etc. via using the Packet Forwarder / 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 4G Antenna: Main Antenna：3dBi @ PCB Antenna DIV Antenna：4dBi @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: B2/B4/B5/B8/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5
4G Features	Support non-CA Cat 4 FDD LTE-FDD: Max 150Mbps (DL), Max 50Mbps (UL)
UMTS Features	Support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL), Max 384Kbps (UL)g
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	8471707000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/SenseCAP-Multi-Platform-LoRaWAN-Indoor-Gateway-SX1302-4G-US915-p-5600.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