

# Multi-Channel LoRaWAN® Gateway



## Setu X1 Overview

The Setu X1 is a compact, high-performance indoor LoRaWAN gateway engineered for reliable IoT deployments across buildings, campuses, and industrial environments. Equipped with 8 true LoRaWAN multichannels, the Setu X1 delivers high-capacity network coverage and stable packet handling even in dense sensor installations.

Designed for seamless connectivity, the gateway includes single-SIM 4G LTE for primary or failover communication and Wi-Fi backhaul for flexible, low-cost installations. With edge-optimized firmware, secure remote management, and industrial-grade uptime, Setu X1 ensures uninterrupted LoRaWAN network performance.

### Interfaces

1 x SIM 4G

WiFi

Ethernet (PoE)\*

### Wireless Technology



## Features

### Compact Indoor LoRaWAN® Gateway

Sleek design optimized for indoor deployments

### Carrier-Grade Reliability

IP 35 enclosure for harsh indoor environments

### Supercap Backup \*

Provides protection against sudden power loss.

### Seamless Integration

Compatible with private LNS, ChirpStack, Actility

### Low Power Consumption

Optimized design for energy-efficient operation

### High-Capacity LoRaWAN® Concentrator

Supports thousands of LoRaWAN nodes simultaneously.

### Multiple Backhaul Options

Ethernet, 4G/LTE, and Wi-Fi for flexible connectivity.

### ARM Cortex A7 Core

Powerful processor for edge intelligence.

### Remote Management

OTA updates & cloud-based configuration

### Compatible with all LoRaWAN® network servers & gateways

## Specifications

### Processor

Type	ARM Cortex A7
Number of cores	Quad core
Clock	960MHz per core
Memory size	128 MB DDR2 RAM
Memory speed	1066MHz max
Internal memory	32 MB
USB	Device for debug
Connector	C-type
Protection	Surge protection (Optional External)

### LoRaWAN®

Compatibility	LoRaWAN®, Class A/B/C
Frequency	IN865 / RU864 / EU868 / US915 / AU915 / KR920 / AS923-1/2/3/4
LoRa Demodulators	8 x 8 channels LoRa packet detectors
Demodulation paths	Up to 10 parallel
Uplinks channel	8
Downlink channel	1
TX power	Up to 26 dBm @ SF12, BW 125 kHz
RX sensitivity	Down to -139 dBm @ SF12, BW 125 kHz
Data-rate	Dynamic data-rate adaptation (ADR)

Antenna Connector	N-type female (Optional)
Inbuilt LNS	ChirpStack server
Other functions	Mac filtering

### Backhual - Ethernet \*

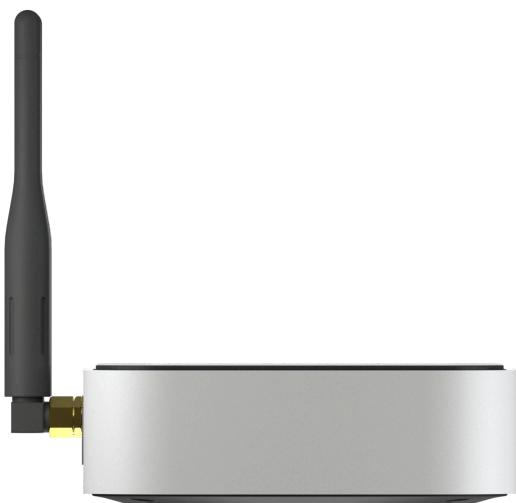
Number	1
Type	1x 10/100M

### Backhual - WiFi

Bands	2.4 GHz ISM
Standards	802.11 b/g/n, 802.3, 802.3u , 802.11e-compatible bursting
Modulation schemes	BPSK, QPSK, 16 QAM, 64 QAM
Security	WEP, TKIP, and AES, WPA, WPA2
Antenna	Inbuilt inside the enclosure

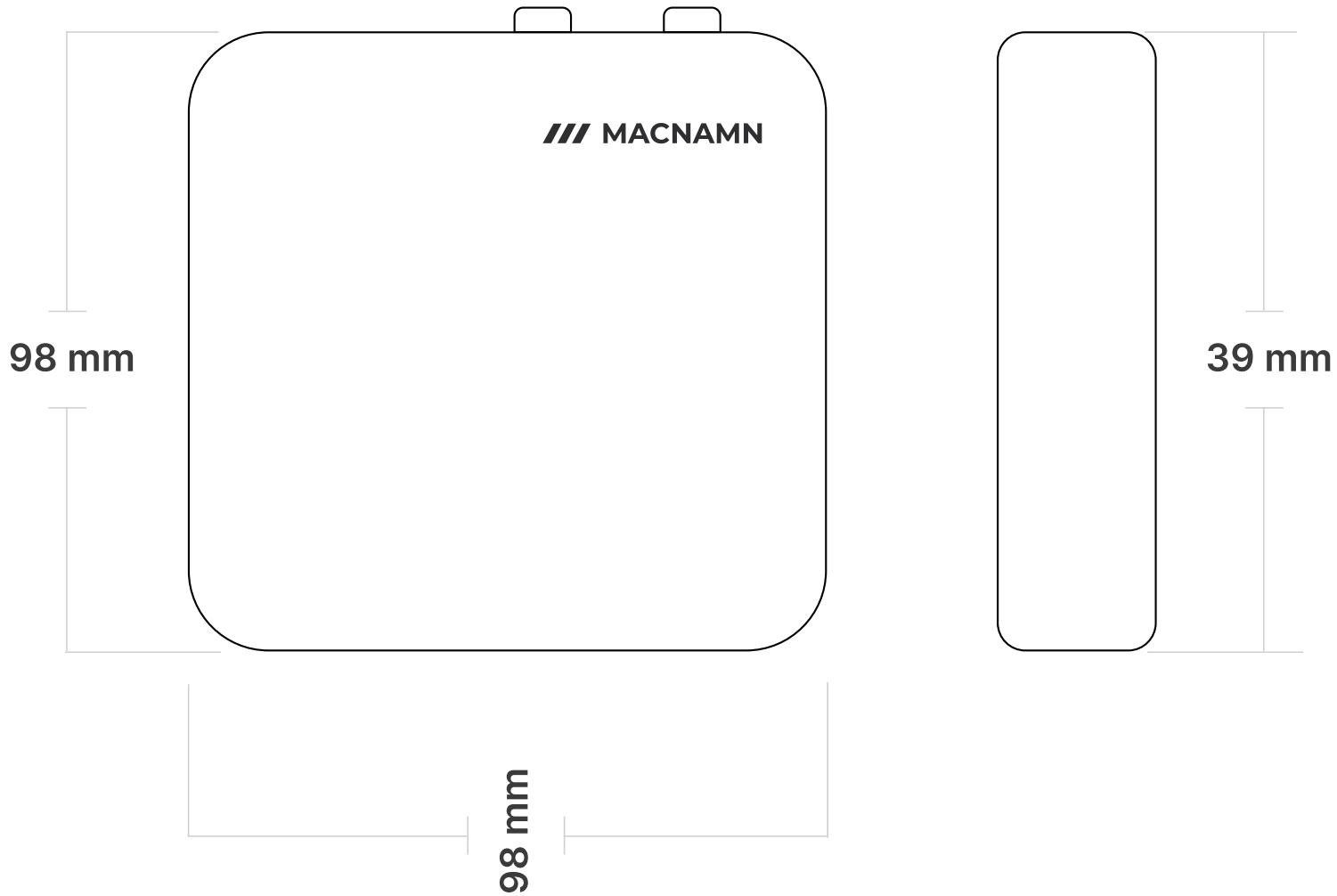
### Backhual - Cellular

Cellular bands	B1/3/5/7/8/20/28
Standards	802.11 b/g/n, 802.3, 802.3u , 802.11e-compatible bursting
Modulation schemes	BPSK, QPSK, 16 QAM, 64 QAM
Security	WEP, TKIP, and AES, WPA, WPA2
Antenna	Inbuilt inside the enclosure

 Device Overview

## Product Dimension

Sensor Probe Cable: Free-mounted probe with 1-meter standard cable (custom lengths available on request)



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