

Outdoor LoRaWAN Gateway

IP65 Rated



OVERVIEW:

The ioX-Connect Outdoor Cellular LoRaWAN Gateway is a flagship industrial-grade gateway **designed to extend long-range LoRaWAN coverage in outdoor and remote environments.** Using a secure 4G cellular backhaul, it bridges your LoRaWAN sensor network to the ioX-Connect platform for reliable, real-time data delivery.

Powered by a Semtech SX1302 concentrator, the gateway **supports multi-channel packet forwarding** and full LoRaWAN protocol compatibility. It comes pre-configured with standard regional frequency bands, with optional customization available for private LoRaWAN networks.

Deployment is **fast and scalable** with ioX-Connect auto-provisioning, which automatically onboards nearby claimed LoRaWAN devices once the gateway is added to the platform. This significantly reduces installation time and simplifies large IoT rollouts.

Features:

- **Cloud-Managed Configuration & Monitoring** through the ioX-Connect platform (no local data access)
- **Semtech SX1302 LoRaWAN Concentrator** for high-capacity, multi-channel data processing
- **LoRaWAN Station & Packet Forwarding Support** for reliable uplinks to ioX-Connect
- **4G Cellular Backhaul** with Optional Failover ensuring continuous connectivity to the platform
- **Supports ioX-Provisioned OTAA/ABP Devices** for controlled, plug-and-play deployment
- **Network-Side LoRaWAN Packet Filtering** to optimize RF efficiency before data reaches ioX-Connect
- **Multi-Status LED Indicators** for guided installation and connectivity diagnostics
- **Built-In GPS Module** for gateway location tracking and timing synchronization within ioX-Connect
- **External High-Gain Fiberglass Antenna** for extended LoRaWAN coverage
- **ioX-Connect Auto-Provisioning** for automatic identification and onboarding of LoRaWAN devices
- **Secure Encrypted Transport (MQTTS)** for end-to-end communication with the ioX-Connect cloud
- **Remote Gateway Health Monitoring** via the ioX-Connect platform
- **IP65 Weatherproof Enclosure** designed for harsh outdoor and industrial environments
- **Integrated Lightning/Surge Protection** for reliable field performance
- **Low Power Consumption:** 12V, 300–500 mA

Specifications:

LoRa Interfaces:

- Sensitivity: -140dBm Max Output
- Power: 27dBm 1 x SX1302 + 2 x 1250 LoRa Transceiver

Operating Temperature:

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Order Info: XXX-YYY

XXX: Frequency Band

- 868:** For EU868, RU864, IN865, KZ865
- 915:** For US915, AU915, AS923, KR920

YYY: 4G Cellular Option

EC25-E: EMEA

EC25-AFX: USA:Verizon, AT&T(FirstNet), T-Mobile, U.S.Cellular; Canada:Telus

EC25-AUX: Latin America, New Zeland, Taiwan

Applications:

- Smart Cities
- Smart Factory
- Smart Metering
- Smart Agriculture
- Smart Buildings & Automation
- Logistics and Supply Chain Management

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