

NSG200 OUTDOOR LORAWAN GATEWAY

RELIABLE, LONG-RANGE LORAWAN GATEWAY FOR SEAMLESS IOT DEPLOYMENTS.

The Nvrosense NSG200 is an open-source outdoor LoRaWAN Gateway. It enables bridging of LoRa wireless networks to IP networks via WiFi, Ethernet, 3G, or 4G cellular. LoRa wireless technology allows for long-range, low data-rate data transmission. NSG200 supports Semtech packet forwarder and LoRaWAN Station connection, fully compatible with the LoRaWAN protocol. It features the SX1301 LoRaWAN concentrator.

The NSG200 can communicate with ABP LoRaWAN end nodes without a dedicated LoRaWAN server. System integrators can easily integrate it with existing IoT services, without the need to set up their own LoRaWAN server or use a third-party service. NSG200 supports auto-provisioning for mass deployment and easy long-term maintenance, enabling system integrators to change settings effortlessly.

- **Robust Design:** IP65 enclosure with lightning protection.
- **Energy Efficient:** 12V, 300-500mA power consumption.
- **Versatile Connectivity:** 802.3af PoE, WiFi, optional cellular failover.
- **Precise Data Handling:** Built-in GPS module, LoRaWAN packet filtering.
- **Easy Setup:** Auto-provisioning, managed via Web GUI or SSH.
- **Open System:** Embedded open-source Linux platform.
- **LoRaWAN Support:** Semtech UDP packet forwarder, direct ABP node communication.
- **Remote Monitoring:** Farseeing LED indicator, remote management capability.



KEY SPECIFICATIONS

Category	Feature	Specification
LoRa Interfaces	LoRa Transceiver	1 x x SX1301 + 2 x 1257
	Max Output Power	27dBm
	Sensitivity	-140dBm
General	PoE Port	10M/100M RJ45 PoE Port x 1
	WiFi	1 x 2.4G WiFi (802.11 bgn)
	USB host port	x1
	Mini-PCIe Interface	x1
	Power Input	12v, 1A
	SMA connector	for LoRa Antenna

FEATURES AT A GLANCE



YOUR WIRELESS NETWORK

Develop a fully owned private LoRa network to capture, route and process IoT data for your application at multiple facilities.



RUGGED DURABILITY WITH A BROAD SENSOR ARRAY

Robust enclosures provide a resilient platform for recording and delivering data from within a range of harsh environments.



COMPREHENSIVE SECURITY AND RELIABILITY

Robust multi-layer security at each interface to safeguard your network at every level.



BROAD CERTIFICATION AND APPROVALS

CFR 21 (part 11), PPECB, FCC, IC, CE, ASNZS, NCC, and Bluetooth SIG listing.



THE PLATFORM FOR BUILDING ACTIONABLE IoT INTELLIGENCE

Route sensor data to the cloud with NviroSense's simplified wireless connectivity deployment.



PERSONAL SUPPORT FOR YOUR IMPLEMENTATION

Support works with NviroSense engineering to help configure and deploy your application.

APPLICATION AREAS



PHARMACEUTICAL WAREHOUSING



COLD CHAIN MANAGEMENT & FOOD SAFETY



IN-FIELD AGRICULTURAL MONITORING



INDUSTRIAL & MINING APPLICATIONS

NVIROSENSE SUPPORT



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NEW: The NviroSense NSS450 Series now offers a range of additional sensor options available via expansion port. For more details, visit the [EUCAstore](#)