

Product Description



Meet the OxTech Carbon-8, the 8-channel LoRaWAN gateway engineered for ultimate reliability and scalability. Offering up to a 10-mile range, this gateway minimizes deployment costs while ensuring consistent, long-range coverage. Its user-friendly installation and flexible mounting make it perfect for hassle-free, large-scale network setups.

Contact Us

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Key Features

- **10-Mile Wireless Range**
Maximizes network coverage
- **Semtech Sx1303 Powered**
Top-tier chipset for enhanced performance
- **Ethernet | Wi-Fi | Cellular**
Multiple connectivity options with automatic switching for seamless redundancy
- **Dual Sim Support**
Automatically switches between nano-SIM and e-SIM for seamless connectivity
- **Indoor Class B Option**
Compatible with the Carbon GPS Relay for indoor Class-B
- **Instant Compatibility**
Ready to work with all major network servers & supports every class & type of device
- **Zero Touch Setup**
Pre-configured & ready to-go, easily managed through the OxTech Mobile & Web App
- **Over-The-Air Updates**
Designed for seamless scaling with regular updates
- **Flexible Mounting**
Supports DIN rail, pole, & wall mounts



Oxtech Carbon-8

8-CH LoRaWAN Gateway

*Your Gateway to Seamless
LoRaWAN Performance*

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Value Proposition

Ultimate Reliability

Industrial-grade components and ultra-low power requirements minimize maintenance and reduce downtime

Effortless, User-Friendly Installation

Pre-configured LNS for fast deployment with flexible mounting, app-based management, and pre-installed SIM for seamless cellular activation

Seamless, Always-On Connectivity

Enjoy uninterrupted performance with Ethernet, Wi-Fi, & Dual SIM Cellular options, intelligently switching to the best available connection for continuous network uptime

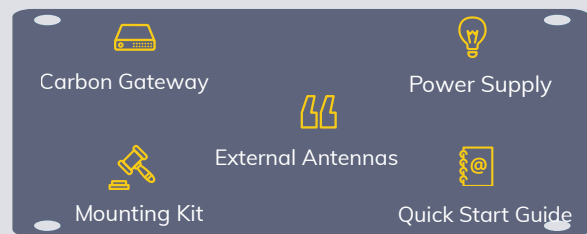
Designed for Scale

Future-proof your network with OTA updates, extensive customization, and multi-network compatibility

Plug & Play Ready

Compatible with top network servers & pre-configured for immediate provisioning, ensuring quick and seamless operation

What's Included



Product Specification

Processing	ESP32-D0WD-V3
LoRa	US915, 8-Channels
Bluetooth	BLE v4.2
Backhaul	Wi-Fi 802.11 2.4GHz Ethernet 10/100 Cellular LTE-M
Power Supply	Input 12VDC, 2.0A POE* POE+ (12V/26W)
GNSS	GPS, GLONASS, Galileo, BDS, QZSS
Sim Card	Dual SIM : eSIM (MFF2) & Nano SIM
Certifications	FCC IC PTCRB
External Antennas	LoRa (915): 2.8dBi 8" Cellular: 5dBi 8"
Security	Secure Boot HW based Secure Element Firmware Encryption

Add-Ons

OxTech Gateway Portal	Dashboard for managing gateways
OxTech Mobile App	Simplifies installation & maintenance
OxTech GPS Relay	Enables indoor Class B operations
Sim Cards	Pre-installed for seamless connectivity

Physical Description

Dimension	5.5" x 6.25" x 1.25" (140 x 158 x 31.7mm)
Weight	0.74 lbs (11.9oz / 336g)
Operating Temperature	32° to 140° F (-0 to 60 °C)
Storage Temperature	-40° to 300° F (-40 to 150 °C)
Humidity	10% to 90% RH (Non-condensing)