

# LINK+ SERIES

## Datasheets

Semantics® introduces Link+ Series, a robust, industrial-grade gateway range designed to power enterprise-scale wireless monitoring with intelligent backhaul and seamless cloud integration.

Built for challenging environments across sectors such as logistics, pharmaceuticals, food distribution and critical infrastructure, Link+ Gateways provide resilient connectivity through LoRaWAN®, 4G LTE, and mesh networking. Each model supports encrypted data transmission, over-the-air configuration updates and flexible power options, ensuring secure, uninterrupted performance.

With native integration into the Semantics® platform, Link+ enables real-time data routing, alarm delivery and network-wide visibility to ensure compliance, traceability and operational continuity.

# Link+ Pro

## Always Connected, Anywhere.

Sematics Link+ Pro is a rugged, industrial-grade LoRaWAN gateway with integrated 4G LTE—combining reliable long-range IoT connectivity with automatic backhaul resilience. With dual concentrators (8 or 16 channels), IP67 protection, and flexible mounting options, it's designed for warehouses, remote sites, and any environment that demands uninterrupted data flow.



## Typical Applications


- Large-scale warehouses and distribution facilities
- Remote or off-grid locations
- Logistics hubs, ports and critical infrastructure
- Utilities, energy, and industrial monitoring sites
- Smart agriculture, environmental, and outdoor

**4G**  
LTE

  
WiFi

  
LAN

  
IP67

  
LoRa

  
AES 128

## Key Features



### Rugged Toughness

IP67 rated and built to perform from -40 °C to +70 °C with flexible mounting options.



### Two-Way Communication

Bidirectional LoRaWAN enable remote control of connected devices.



### Always Up to Date

OTA firmware updates keeps devices current so you can focus on what matters.



### Mesh Backhaul Resilience

Gateways link via mesh networking to extend coverage and add redundancy.



### Flexible Power Options

Power via PoE or 12VDCm with optional solar battery backup for off-grid use.



### End-to-End Security

AES-128 encryption protects data from sensor to cloud.

Parameter	Details
LoRa Radio	LoRa Radio & Protocol: Dual SX1303 concentrators, 8—16 channels
LoRaWAN Protocol	LoRaWAN 1.0.3/1.0.4, Full bi-directional uplink/downlink, ADR, message confirmation, AES-128 Encryption
Device Capacity	Up to 2,000 devices (8 channels)/4,000 devices (16 channels)
Sensitivity	-139dBm minimum receive, up to +27dBm transmit
Primary Backhaul	10/100 Mbps Ethernet (PoE)
Failover Backhaul	4G LTE Cat 4
Mesh Capability	Built-in IP-level mesh routing for multi-hop backhaul between gateways
CPU & Memory	MT7628 CPU, 128 MB DDR2 RAM
Gateway Management	Secure OTA firmware updates via Sematics Cloud
Enclosure	IP67/NEMA 6, 240×240×89.5 mm, ~4.6 kg
Operating Temperature	-40°C to +70°C, 0-95% RH non-condensing
Power	802.3af PoE (37—57 VDC) or 12 VDC input
Mounting Options	Wall or Pole Mount kit included
Connections	1× RJ45 Ethernet, nano SIM slot, dual LoRa N type ports
Certifications	CE, UKCA, FCC
Firmware	Sematics Link OS 1.2 - based on a proven LoRaWAN server stack with secure OTA updates, mesh backhaul, VPN support, and remote gateway fleet management.

# Delivering the Technology that's redefining monitoring standards

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JTF Wireless is the trusted service partner of Sematics - delivering industry-leading monitoring systems across healthcare, life sciences, food production and logistics. We specialise in the deployment, calibration and support of cutting edge Sematics hardware and software, ensuring our clients benefit from seamless installations, reliable data and audit-ready compliance from day one. From system design and validation to proactive support and ongoing optimisation, our expert team helps you unlock the full value of your environmental monitoring investment.

## Let's connect

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