LINK+ SERIES

Datasheets

Sematics® 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 Sematics® platform, Link+ enables real-time data routing, alarm delivery and network-wide visibility to ensure compliance, traceability and operational continuity.

GW-ONE

Link+ One

Always Connected, Anywhere.

Sematics Link+ One is a compact, plug-and-play indoor LoRaWAN gateway for easy deployment in offices, hospital departments, shops, labs, and other small sites. With Ethernet or built-in 4G LTE backhaul and PoE or DC power, it delivers reliable coverage without the bulk of larger gateways. Powered by Link OS 1.2, it supports mesh backhaul, secure OTA updates, and remote fleet control-making it the smart, cost-effective choice for resilient indoor IoT connectivity.

Typical Applications

- Retail stores, restaurants, clinics
- Office spaces and data rooms
- Small warehouses or back-of-house areas
- Localised expansions in larger indoor environments
- Labs, schools, or secure buildings needing compact LoRaWAN nodes

4G LTE | WiFi | LAN | LoRa | AES 128

Key Features

Plug & Play
Compact and lightweight. Mounts easily on walls, shelves, or cabinets.

Dual Backhaul
Ethernet with automatic 4G LTE backup. Reliable and resilient.

Power Options
Supports DC input or PoE. Flexible for any setup.

Mesh-Ready
Built-in mesh backhaul links units wirelessly. Expands coverage without extra cabling.

LoRaWAN Compatible
Uses standard protocol. Works with all certified sensors.

Remote Management
Link OS 1.2 + Sematics Cloud. Monitor and update gateways remotely.

Two-Way Control
Supports downlinks to reconfigure or control sensors.

Secure by Design
AES-128 encryption protects data from sensor to cloud.

Technical Specifications

Parameter	Details
LoRa Radio	Single SX1302 concentrator, 8 channels, Standard LoRaWAN 1.0.3/1.0.4
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
Sensitivity	-139 dBm min receive, +27 dBm max TX
Primary Backhaul	10/100 Mbps Ethernet (PoE)
Backup Backhaul	Built-in 4G LTE Cat 4 (all models)
Power	9-24 VDC input or 802.3af PoE
Mesh Backhaul	Integrated IP-level mesh routing
CPU & Memory	MT7628 580 MHz CPU, 128 MB DDR2 RAM
Gateway Management	Link OS 1.2 with secure OTA updates, VPN, remote fleet management
Enclosure	Indoor only; 120×120×30 mm, ~270g
Operating Temperature	-10°C to +55°C
Mounting Options	Wall or desk mount
Connections	1× RJ45 Ethernet, nano SIM slot, LoRa SMA connector
Certifications	CE, FCC, UKCA

JTF wireless monitoring

Delivering the Technology that's redefining monitoring standards

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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