



XIGNAL

Signal is a brand of Dimo Systems · The Netherlands

Specifications Outdoor Gateway



Detect

The Xignal Solution uses a private LoRaWAN network. For large area deployments, use the prefigured outdoor Xignal Gateway. The Gateway requires ethernet or a SIM card.



Send

Through LoRa technology, sensors communicate via your public or private network. LoRa can cover 150 ft² to 150,000 ft². From sensors to portal, Xignal is your easy to use solution.



Report

By push-notification to your phone, tablet, laptop, or PC, you receive timely pest activity reports. Take immediate action when notified of captures.

Download the Xignal app or go to:
my.xignal.com



Access Point for Outdoor LoRa Technology

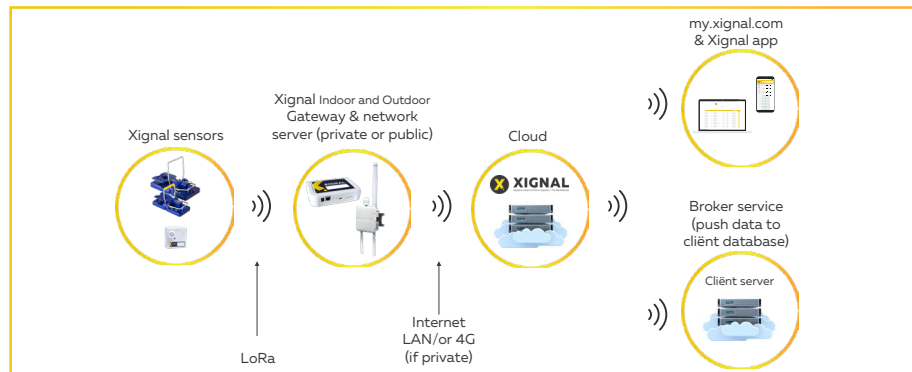
The Xignal Outdoor Gateway is a robust Outdoor Gateway and is designed for longevity in all weathers. This Gateway provides the link between the Xignal sensors, such as traps and motion sensors, and the Xignal Cloud Center.

The Gateway can connect multiple sensors uses the LoraWAN™ protocol. It expands LORA network coverage at any location and can cover hard to reach areas.

The Gateway can be mounted on walls or anywhere outside to extend LoRa® connectivity around commercial buildings such as warehouses and stockcenters, offices and retail facilities. Coverage in difficult to reach areas where cell tower or rooftop deployments may not penetrate.

The Gateway is preconfigured to perform optimally in the Xignal environment. Installation is plug and play using the 4G-LTE connection for internet access. The Outdoor Gateway can be connected to your network using an ethernet.

(Your network must support DHCP)



Features

- LORA Omni-directional internal antenna with +2 dBi gain for 868/915 MHz ISM band
- 4G LTE with 2x2 MiMo
- Supported managed network
- 27 dBm Transmitter Power Output

Key Benefits

- Preconfigured Plug-and-Play
- Quick and easy to install
- LORA, CE, FCC certified
- Affordable LORA connectivity in or around commercial buildings

Certifications

EMC COMPLIANCE

EN 55032 Class B
EN 301 489-3 V2.1.1
EN 301 489-1 V2.2.0
EN 301-489-52 V1.1.0

RADIO COMPLIANCE

EN 300 220-2 V3.1.1
EN 300 328 V2.1.1
EN 301 511 V12.5.1
EN 301 908-1 V11.1.1
EN 301 902-2 V11.1.1
EN 301 908-13 V11.1.1
EN 62311

SAFETY

IEC 60950-1 , IEC 62368-1

MOBILE NETWORK OPERATOR APPROVALS

GCF Certified Cell Module

QUALITY

MIL-STD-810G: High Temp, Low Temp, Random Vibration.
SAE J1455: Transit Drop & Handling Drop, Random Vibration,
Swept-Sine Vibration. IEC68-2-1: Cold Temp. IEC68-2-2:
Dry Heat

WARRANTY

2 years



Gateway outdoor product specifications

MODELS

MOBILE NETWORK OPERATOR
CELLULAR PERFORMANCE
FALLBACK
FREQUENCY BAND (MHZ)

PACKET DATA (LTE DFF)
INPUT VOLTAGE

PROCESSOR & MEMORY

WI-FI/BLUETOOTH (-275 MODELS)

GPS/GNSS
LEDS(*)

LORA SPECIFICATIONS

LORA FREQUENCY BAND
LORA CHANNEL PLAN
CHANNEL CAPACITY
LORA POWER OUTPUT

CONNECTORS

ETHERNET
USB HOST(*)
SIM(*)
ANTENNAS

PHYSICAL DESCRIPTION

DIMENSIONS
WEIGHT
CHASSIS TYPE

ENVIRONMENTAL

OPERATING TEMPERATURE
STORAGE TEMPERATURE

SIGNAL GATEWAY OUTDOOR

US Network Operators
4G-LTE Category 4
3G - HSPA+, 2G - GPRS
4G B3 (1800), B7 (2600), B20 (800), B28A (700)
3G B1 (2100), B3 (1800), B8 (900)
2G B3 (1800), B8 (900)
Up to 150 Mbps downlink, Up to 50 Mbps uplink
Ethernet Input Power: 37 - 57 VDC.
Provided by PSE injector with power rating of 60W or greater
ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets 400 MHz, 16K Data Cache, 16K Instruction Cache 128X16 MB DDR RAM, 256 MB Flash Memory
WiFi: 802.11abng (2.4 & 5 Ghz)
Bluetooth: Classic 4.1 and BLE
GNSS for LoRa Packet Time Stamping
Concurrent GNSS connections: 3
GNSS Systems Supported: (default: concurrent GPS/QZSS/SBAS and GLONASS)
PR (Power), ST (Status, user-programmable), L1 (user-defined), L2: (user-defined)

915 MHz
US915*
16-channels (Half Duplex)
27 dBm maximum output power before antenna

RJ45 Ethernet jack (10/100 port) (POE)
USB 2.0 Type A connector
3FF Micro SIM
Cellular, GPS, LoRa: female SMA / LoRa: reverse polarity female SMA

L: 10.32" x W: 10.12" x H: 3.58" (L: 262 mm x W: 257 mm x H: 91 mm)
6.06 lb (2.75 kg)
IP67-rated, Aluminium

-22°F to 167°F (-30°C to +75°C)
-40°F to 185°F (-40°C to +85°C)

*NA915, EU868, AU915, KR920, AS923, IN865, RU864



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