XIGNAL

Xignal is a brand of Dimo Systems · The Netherlands

Specifications
Indoor 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

Download on the App Store

ANDROID APP ON Google play

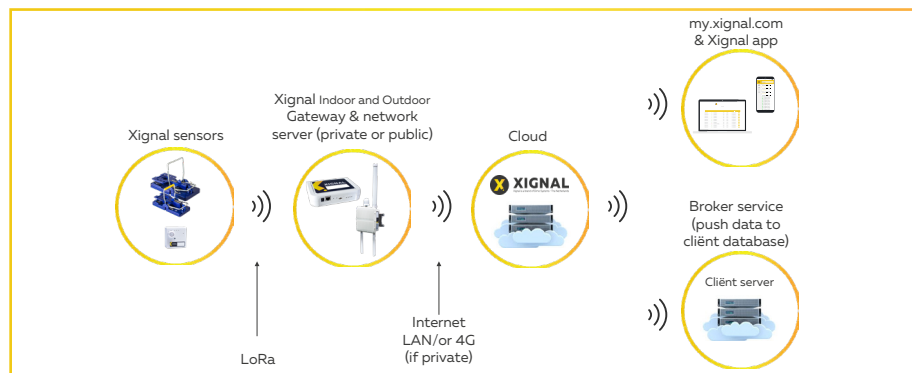# Access Point for Indoor LoRa Technology

The Xignal Indoor 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 ceilings to extend LoRa® connectivity in commercial buildings such as hotels, convention centers, 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 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 indoor product specifications

MODELS	XIGNAL GATEWAY INDOOR
MOBILE NETWORK OPERATOR	US Network Operators
PERFORMANCE	4G-LTE Category 4
FALLBACK	3G - HSPA+, 2G - GPRS
FREQUENC Y BAND (MHZ)	4G B1(2100), B3(1800), B7(2600), B8(900), B20(800) B28A(700)
	3G B1(2100), B3(1800), B8(900)
	2G B3(1800), B8(900)
PACKET DATA (LTE DFF)	Up to 150 Mbps downlink, Up to 50 Mbps uplink
INPUT VOLTAGE	5 VDC 2.5A input provided by 100-240 VAC 50/6- Hz 0.4A external adaptor
PROCESSOR & MEMORY	ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets. 400 Mhz, 16K Instruction Cache, 16K Data Cache, 128X16M DDR RAM, 256 MB Flash Memory

LORA SPECIFICATIONS

LORA FREQUENCY BAND	915 MHz
LORA CHANNEL PLAN	US915*
CHANNEL CAPACITY	8-channels (Half Duplex)
LORA POWER OUTPUT	24,6 dBm maximum output power before antenna

CONNECTORS

POWER	0.098" (2.5 mm), 5 Volt power jack
ETHERNET	RJ45 Ethernet jack (10/100 port)
SIM	3FF Micro SIM
ANTENNAS (-001A MODELS)	No external antenna connections (All antennas are internal to chassis)
ANTENNAS (-041A MODELS)	LoRa: Reverse polarity female SMA Cellular: No antenna connection, internal only

PHYSICAL DESCRIPTION

DIMENSIONS	L: 6.5" x W: 5.3" x H: 1.4" (L: 165 mm x W: 135 mm x H:36 mm)
WEIGHT	3 lb (1.4 kg)
CHASSIS TYPE	PC-ABS (polycarbonate-ABS) Designed for IP30 rating

ENVIRONMENTAL

OPERATING TEMPERATURE	32°F to 158°F (0°C to +70°C)
STORAGE TEMPERATURE	-40°F to 185°F (-40°C to +85°C)
RELATIVE HUMIDITY	20% to 90%, non-condensing

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

www.dimosystems.com