



# XIGNAL

Xignal is a brand of Dimo Systems · The Netherlands

## Specifications Gateway Indoor



### Detect

The Xignal Solution is using a private LoRaWAN network. For big industrial or multi building deployments you can use the preconfigured signal outdoor gateway. The gateway needs a internet connection using ethernet or you can activate the preinstalled SIMcard true Dimo Systems to use a cellular (4G) internet connection. (cellular comes with a annual subscription true Dimo Systems)



### Send

Through LoRa technology, the sensors communicate via your private or public network. Depending upon circumstances, LoRa has a range of 150 ft<sup>2</sup> tot 150,000 ft<sup>2</sup>. The Xignal end-to-end solution, from sensors to online portal, is easy to use.



### Report

By a push notification on your phone, tablet, laptop or PC you receive reports about the activities of pests. This way you can take immediate action when you have caught something. Ideal for the pest controller, the quality manager and the auditor.

Download now the Xignal app or go to  
[my.xignal.com](http://my.xignal.com)



# Access Point for indoor LoRa Technology

The Conduit® AP conveniently provides deep in-building connectivity and improved performance for network operators and enterprises connecting thousands of IoT assets by harnessing the power of the LoRaWAN® protocol.

Easy to deploy, the Conduit AP access point extends LoRa® connectivity in commercial buildings like hotels, convention centers, offices and retail facilities providing coverage in difficult to reach areas cell tower or rooftop deployments may not penetrate.

The Conduit AP offers a development environment for software developers and IT professionals alike. mPower™ edge intelligence features an easy-to-use graphical interface set-up and includes a built-in LoRa Network Server and Packet Forwarder to connect locally clustered assets on a private LoRa-WAN network directly to your choice of IoT data platforms. The Conduit AP extends complex processing to the edge to reduce upstream communication and operational costs. The Conduit AP provides Ethernet IP backhaul or optional 4G-LTE IP backhaul.

## mPower™ Edge Intelligence

mPower™ Edge Intelligence is a new embedded software offering, building on its popular application enablement platform, to deliver programmability, network flexibility, enhanced security and manageability for scalable Industrial Internet of Things (IIoT) solutions.



## Features

- 4G-LTE with 2x2 MiMo
- LoRa Omni-Directional internal antenna with +2 dBi gain for 868/915 MHz ISM band
- Ethernet RJ-45 10/100 BaseT for IP backhaul
- Support for maximum 27dBm Transmitter Power Output
- Optional built-in LoRa Network Server

## Key Benefits

- Provide Improved Service Level Agreements for LoRa
- Affordable LoRa connectivity in or around commercial buildings
- Configurable Ethernet and 4G-LTE interfaces for Primary or Secondary WAN
- Quick and easy to deploy
- Certified and carrier approved

## 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 Heatz

### WARRANTY

2 Years



# Gateway indoor product specifications

## MODELS

MOBILE NETWORK OPERATOR  
PERFORMANCE  
FALLBACK  
FREQUENCY BAND (MHZ)

PACKET DATA (LTE OFF)  
INPUT VOLTAGE

PROCESSOR & MEMORY

## LORA SPECIFICATIONS

LORA FREQUENCY BAND  
LORA CHANNEL PLAN  
CHANNEL CAPACITY  
LORA POWER OUTPUT

## CONNECTORS

POWER  
ETHERNET  
SIM  
ANTENNAS (-001A MODELS)  
ANTENNAS (-041A MODELS)

## PHYSICAL DESCRIPTION

DIMENSIONS  
WEIGHT  
CHASSIS TYPE

## ENVIRONMENTAL

OPERATING TEMPERATURE  
STORAGE TEMPERATURE  
RELATIVE HUMIDITY

## SIGNAL GATEWAY INDOOR

European Network Operators

4G-LTE Category 4

3G - HSPA+, 2G - GPRS

**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)

Up to 150 Mbps downlink, Up to 50 Mbps uplink  
5 VDC 2.5A input provided by 100-240 VAC 50/60 Hz  
0.4A external adaptor

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

915 MHz

US915\*

8-channels (Half Duplex)

24.6 dBm maximum output power before antenna

2.5mm, 5 Volt power jack

RJ45 Ethernet jack (10/100 port)

3FF Micro SIM

No external antenna connections (All antennas are  
internal to chassis)

LoRa: Reverse polarity female SMA Cellular: No antenna  
connection, internal only

165 (6.5) x 135 (5.3) x 36 (1.4) mm (in)

1.4 (3) kg (lb)

PC-ABS (polycarbonate-ABS) Designed for IP30  
rating

0°C to +70°C

-40° to +85° C

20% to 90%, non-condensing

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



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