



XIGNAL

Xignal is a brand of Dimo Systems · The Netherlands

Specifications Gateway Outdoor



Detect

The Xignal Solution is using a private LoRaWAN network. For big industrial or multi building deployments you can use the preconfigured xignal 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 ft2 tot 150,000 ft2. 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



Access Point for outdoor LoRa Technology

The Conduit® IP67 Base Station is a ruggedized IoT gateway solution, specifically designed for outdoor LoRa® public or private network deployments. The highly scalable and certified Conduit IP67 gateway is capable of resisting the harshest environmental factors including moisture, dust, wind, rain, snow and extreme heat. The device supports LoRaWAN® applications in virtually any environment. Leveraging the Conduit, this device can support thousands of LoRaWAN-certified end nodes, including the mDot™*. This flexible solution provides durable, low-power, wide area network connectivity in support of M2M and IoT applications for both LoRa service providers and individual enterprises wanting to expand their LoRa network coverage.

Bundled for easy deployment, the solution includes a Conduit with a LoRa mCard™, IP67 enclosure and LoRa antenna to improve outdoor range. It also provides a choice of cellular 3G, 4G-LTE or Ethernet backhaul options. The LoRa transceiver can be deployed as part of an existing telecommunications tower, individual stand or wall mount.

*Represents ideal network configuration and equipment set up. Results vary depending on payload amount, transmission frequency, spreading factor used, as well as terrain, RF interference and obstruction type (e.g., metal, cement, etc.)

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

- Supports 868 MHz and 915 MHz ISM bands
- LoRaWAN Compliant
- Supports Public and Private LoRa network deployments
- POE (power over Ethernet) for easy deployment and maintenance
- Lightning arrestor and grounding mechanism for protection against storm damage (optional accessory - sold separately)

Key Benefits

- External high gain antenna increases LoRa connectivity to remote assets
- Greatly expands LoRa network coverage
- High quality, low cost support

Certifications

EMC COMPLIANCE

EN 55023 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 300 220-1 V3.1.1
EN 300 220-2 V3.1.1
EN 300 328 V2.1.1
EN 301 511 V9.0.2
EN 301 893 V2.1.1
EN 301 908-1 V11.1.1
EN 301 902-2 V11.1.1
EN 301 908-13 V11.1.1
EN 62311-2008

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
CELLULAR 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

European 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)

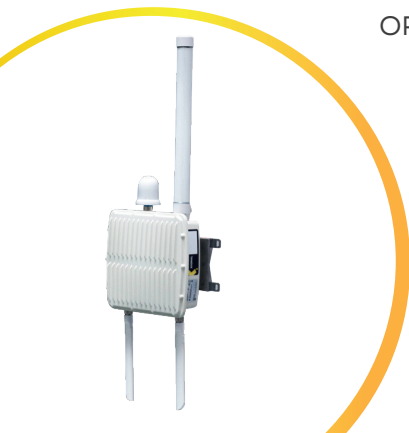
915 MHz
US915*
16-channels (Half Duplex)
27 dBm maximum output power before antenna

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

262 mm x 91 mm x 257 mm
2.75 kg
IP67-rated, Aluminum

-30° to +75° C
-40° to +85° C

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



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