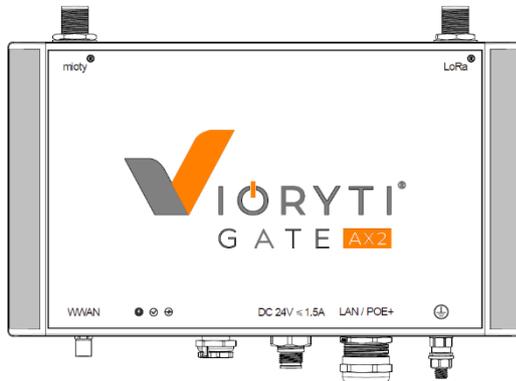


FUNCTION



The VIORYTI® GATE AX2 is a hybrid gateway for Internet of Things (IoT) applications. The gateway is designed for communication in Low Power Wide Area Networks (LPWAN) by collecting data from IoT LPWAN sensors and forwarding it to connected central server systems. It offers various LPWAN radio communication channels such as mioty® and LoRa® in one device and forwards the sensor data to a Network Service Center as part of the central backend in the mioty® or LoRaWAN® infrastructure.

The VIORYTI® GATE AX2 can be used for a wide range of IoT applications, from smart cities and smart agriculture to industrial applications.

FEATURES

“All-in-one” multi-connectivity gateway for applications in LPWAN infrastructure
Modular design: Wireless interfaces can be expanded using Mini PCI Express cards (4 slots)
LPWAN Interface: mioty® and LoRa®
Communication capacity for up to 50,000 devices
LPWAN radio range up to 15 km outdoors, depending on antenna and location conditions
mioty® Service Center connection via BSSCI (Base Station Service Center Interface)
LoRaWAN® Network Server connection via UDP Packet Forwarder or Basics Station
Support for OMS5 splitting mode (UL-S1) via mioty®
Cellular communication LTE Cat. 1 (via pluggable Mini-SIM or integrated eSIM)
Graphical configuration interface
Secure by Design, including Secure Boot, data encryption, remote software updates (OTA)
Waterproof and robust aluminum housing (IP65)
Suitable for wall and pole mounting

TECHNICAL DATA

Radio Technologies	LPWAN: mioty [®] Band EU1, LoRa [®] , Cellular: LTE Cat. 1
Radio Frequencies LPWAN	863 – 870 MHz
Connections Antenna	2x N-Type (LPWAN), 1x SMA (Cellular/LTE)
Connections Network	1x LAN (RJ45) with Power over Ethernet (PoE+)
External Power Supply	100 – 240 V AC / 1,5 A, 50 – 60 Hz (external power supply) or PoE+ (LAN)
Power Supply Inputs	M12 (DC 24 V – 48V via external power supply) or LAN RJ45 (for PoE+)
Power Consumption	6 Watts (typical)

DIMENSIONS

Width	260 mm
Height	190 mm
Depth	65 mm
Weight	1.66 kg

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20 ... +50°C
Storage Temperature	-20 ... +70°C
Protection Class	IP65 (Outdoor)
Relative Humidity	10 ... 85% (non-condensing)

CYBERSECURITY

The VIORYTI[®] GATE AX2 meets various security requirements in accordance with European Union specifications. These include a secure boot mechanism which, in combination with a secure element, ensures the integrity of the installed firmware. This is supplemented by memory encryption and physical tamper detection, which effectively protect the device from unauthorized access.