
FEATURES

All-in-one-multitechnology receiver for Smart City LPWAN infrastructure

Bidirectional communication (except wM-Bus)

Multi-tenant operation

Holistic multi-layer security architecture

Highest data availability

Capacity for up to 50.000 devices

Intelligent telegram filtering

Ethernet 10/100

LTE Cat. 1

Three external antenna ports

868 MHz (mioty[®], LoRa[®] and wM-Bus)

White-Label adaptations on request

Interface configuration on request

FUNCTION

The VIORYTI[®] GATE is a hybrid gateway for IoT applications collecting data from IoT LPWAN sensors. It provides different LPWAN radio communication channels like mioty[®], LoRa[®] and wM-Bus in one device and forwards the sensor data towards a Network Service Center as part of the central backend in the mioty[®] or LoRaWAN[®] infrastructure.

APPLICATION

The VIORYTI[®] GATE can be used for a broad variety of IoT applications ranging from Smart Cities over Smart Agriculture to Industrial Applications.

The mioty[®] technology empowers industries and communities with the most robust and efficient IoT connectivity solution on the market for maximum accessibility. Ist patented telegram splitting technology applies lowest packet error rates, enabling reliable operation even in a crowded spectrum with interference by other networks.

Technical Data Sheet



ASSEMBLY

Housing suitable for wall mounting or ceiling mounting

GENERAL

Communication capacity	50,000 devices
Antenna	3 SMA-connections (for mioty®, LoRa®, and Wireless M-Bus)
Data granularity	Individually adjustable: Stream Mode (without data reduction) or Batch Mode (data export after aggregation every 1 min – 24 hours)
Range of reception	Up to 15km outdoors, depending on antenna and location

TECHNICAL DATA

Versions	868 MHz (434 MHz version on request)
Interfaces	Ethernet and LTE (in option)
External power supply	100 bis 240V AC /1,5A, 50-60Hz
Power connector	12.0 V DC / 5,0A (max.)
Typical power consumption	9W
Supported LPWAN	mioty® Band EU1, LoRa®, Wireless M-Bus Mode T1 & C1

DIMENSIONS

Length	127 mm
Width	197 mm
Height	22 mm
Weight	0,7 kg

AMBIENT CONDITION

Operating Temperature	-20...+55°C
Storage Temperature	-20...+70°C
Protection Class	IP20 (Innenbereich)
Relative Humidity	10...85% (non condensing)

CERTIFICATION

CE certified according to the Radio Equipment Directive 2014/53/EU - Annex III, Module B (EU type examination)
(EN 301489-1, EN 301489-3, EN 301489-52, EN 300220-1, EN 300220-2, EN 62311, EN 62368-1, EN 60068-x, EN 301511, EN 301908-1, EN 301908-2, EN 301908-13, EN303413)