

# IZAR IOT GATEWAY PREMIUM

RADIO RECEIVER

**DIEHL**  
Metering



## APPLICATION

Diehl Metering empowers utilities and other industries with the most robust and efficient IoT connectivity solution on the market for maximum range.

The IZAR IoT GATEWAY Premium enables a bidirectional communication from and to IoT sensors for smart city as well as smart metering applications.

With only one device and only one LPWAN antenna it is possible to support wM-Bus, LoRaWAN® and mioty® 4OMS as part of the OMS Generation 5 specification.

## FEATURES

- ▶ Modular approach (IoT Gateway Base and up to 3 primary radio technologies)
- ▶ 2-way to sensor / meter
- ▶ Multi-User and Role Management
- ▶ Remote configuration and firmware update
- ▶ Localization (GPS, GLONAS, GALILEO)
- ▶ Tertiary on-demand reading & alarming
- ▶ Local and remote logging and monitoring (24/7)

# IZAR IOT GATEWAY PREMIUM

## RADIO RECEIVER

### PRINCIPLE OF OPERATION

The IZAR IoT GATEWAY Premium offers a way to handle radio telegrams from different LPWAN standards in a data encoding agnostic way. All telegrams are collected, filtered, processed and exported automatically, dynamically and securely to the selected head-end system.

### GENERAL

| IZAR IoT GATEWAY Premium |                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                 | Up to 100,000 sensors/meters                                                                                                              |
| Antenna                  | 1 N-connector supporting all LPWAN technologies                                                                                           |
| Data granularity         | Individually adjustable: "Stream mode" (no data reduction) or "Batch mode" (with export after data aggregation every 1 minute - 24 hours) |
| Range of reception       | Up to 11 km in average outdoors, depending on type of connectivity, antenna and location                                                  |

### TECHNICAL DATA

| IZAR IoT GATEWAY Premium  |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| Interfaces                | Gigabit Ethernet, LTE Cat.4 (with mimo), GNSS, LPWAN                                             |
| External power supply     | PoE++ (IEEE802.3bt Type 3, Class 5 (40W), available as accessory in indoor and outdoor version)  |
| Power connector           | RJ45 (LAN connector with IP65 available as accessory)                                            |
| Typical power consumption | Max. 33 W                                                                                        |
| Supported LPWAN           | 868 MHz: mioty®, mioty® for metering, mioty®4OMS, LoRaWAN®, wM-Bus Modes T1 and C1 (OMS), R4/R4+ |

### REACH

Information pursuant to Article 33 (1) of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006:

This product series contains components with the following substances in a concentration of more than 0.1% weight by weight (w/w):

- Lead (CAS no.: 7439-92-1)

### AMBIENT CONDITION

| IZAR IoT GATEWAY Premium |                            |
|--------------------------|----------------------------|
| Operating temperature    | -20 ... +55°C              |
| Storage temperature      | -40 ... +75°C              |
| Protection class         | IP 65                      |
| Humidity                 | 5 ... 90% (non-condensing) |

### DIMENSIONS

| IZAR IoT GATEWAY Premium |                                            |
|--------------------------|--------------------------------------------|
| Length                   | mm 313                                     |
| Width                    | mm 223                                     |
| Height                   | mm 92 (72 without wall mounting kit)       |
| Weight                   | kg 4.115 (3.180 without wall mounting kit) |

### PRODUCT CONNECTIVITY VARIANTS

Individual LPWAN radio connectivities and product features are activated via license keys.

The usage of the Gateway is subject to the terms of use defined by the End User License Agreement (EULA) in the Diehl Metering online customer portal.

Use of the LoRa Alliance® and LoRaWAN® marks is pursuant to license from the LoRa Alliance®

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Subject to technical adjustments

Empower a sustainable future