

# 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 accessibility. 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 mioty®, mioty®4OMS, wM-Bus and LoRa® communication.

## FEATURES

- ▶ Modular approach (IoT Gateway Base and up to 3 primary radio technologies)
- ▶ 2-way to sensor / meter
- ▶ Multi-User and Role Management
- ▶ Remote 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 fully 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®4OMS, LoRaWAN®, wM-Bus Modes T1 and C1 (OMS), R4/R4+                     |

### 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.