DIEHL
Metering

IZAR IOT GATEWAY PREMIUM

RADIO RECEIVER



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)

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®

Economic Actor Information

Applicable regulation and legal obligations for products may change.

DIEHL METERING monitors applicable regulation to ensure their products comply at the date of placing on the market.

Each economic actor making products available on the market thereafter must independently keep informed about the current applicable regulation.

For questions, please contact: metering-germany-info@diehl.com

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