

Wirnet™ iZeptoCell Cellular

LoRaWAN® Indoor Gateway for the Internet of Things



LTE-M



The “Wirnet™ iZeptoCell Cellular” is the ideal gateway to support you in your smart city, smart building or every smart project that requests dedicated indoor coverage and/or network densification, providing both a unique superior LoRa® coverage and operational excellence with embedded LTE-M backhaul.



Smart Cities



Smart Building



Smart Metering



Smart Retail

Kerlink is certified ISO9001: 2015 by AFNOR certification. The Quality Management System gives high priority to Customer satisfaction and progress implementation.



Key Features

- Indoor LoRa® Gateway,
- Supported unlicensed bands: 863-870MHz (EMEA, India), 902-928MHz (North America),
- Supported LoRaWAN® regional parameters: EU863-870, IN865-867, RU864-870, US902-928,
- 8 x 8 packets detectors, 8ch RX (125 kHz, multi Spreading Factor) + 1ch RX (250kHz or 500kHz, mono Spreading Factor) + 1ch RX (FSK) + 1ch TX,
- Backhaul : LTE CatM1 / LTE CatNB2 (NB-IoT) / EGPRS / GPRS worldwide connectivity with remotely configurable eUICC,
- Powered through USB-A connector using:
 - AC/DC power supply (90-264VAC/5VDC), direct mounting (included accessory),
 - USB-A extension cable (included accessory),
 - USB-A to USB-C cable (optional accessory, not included),
 - PoE/USB power splitter (optional accessory, not included),
- Highly secured device relying on a hardware secure core.

Key Differentiators

High performance and reliability

- Semtech CoreCell Reference Design,
- Integrated LoRa and LTE antennas,
- Built-in high rejection filters,

Secure hardware and software architectures

- SecureBoot (Signed firmware),
- SecureStorage (keys and certificates in secured area) using ProvenCore™ solution,
- Secured links and backhaul protection (OpenVPN/IPsec),
- Reboot (watchdog) and recovery on previous Management config (or factory config if the boot issue is not fixed).

All product specifications are subject to change without notice (V1.4)

Easy deployment

- Easy installation: wall mounting by 1 oblong holes or by VELCRO® strips or by double sided adhesive tape, or direct mounting on AC/DC supply or lay on a table,
- Easy access to connectivity:
 - eSIM with LTE-M/NB-IoT/GPRS worldwide connectivity,
 - 3 LEDs:
 - 1 LED (green/red) for Gateway status,
 - 1 LED (green/red) for Backhaul status,
 - 1 LED (green/red) for LoRa® RF activity (Uplink,Downlink),
- USB Type A connector for power supply,
- Integrated LoRa® and LTE antennas,
- Reset button,
- Simple and convenient configuration, management, control and update via the Kerlink Wanesy™ Management Center(Alarm notifications, Firmware upgrade, platform statistics, RF statistics, ...),
- Remotely configurable, manageable, via intuitive Web GUI,
- Remote access via SSH.

Technical Features

- LoRa® performance:
Rx Sensitivity: -140 dBm (SF12BW125),
Tx conducted power: configurable from 5dBm to 25dBm
Maximum EIRP: 27dBm
- LTE CatM, Cat NB, GPRS, EGPRS module supporting:
+23dBm output power (class 3),
Bands 1, 2, 3, 5, 8, 12, 13, 18, 19 20, 25, 26, 27, 28, 66, 71, 85,
EU RED, US FCC, CA ISED, BRAZIL ANATEL, JAPAN JRF & JTBL, CHINA CCC, Singapore INDA, Australia RCM, Taiwan NCC, Korea approvals,
- MFF2 eUICC remotely configurable,
- CPU: ARM Cortex A7 792MHz,
- DDRAM 256 MB,
- 4GB eMMC (2GB available for user)
- Power consumption: 1W nominal, 5.5W max
- Operating Temperature Range: 0°C +55°C (for gateway only, without power supply),
- Humidity: 5% to 95%,
- Size: 76 x 68.5 x 32 mm,
- Weight: 65g (gateway only); 250g (with packaging),
- Casing: IP30

Value-added Services

- **Free access to Kerlink Wiki for customers**
- Plug & Play installation,
- Wirnet™ iZeptoCell Cellular is part of the end-to-end LoRa® connectivity solution with Kerlink Wanesy™ Management Center, remote monitoring and Operations Management suite (option),
- Maintenance Services (option),
- Kerlink Project Management: Kerlink supports you throughout your project by responding to your specific needs through its service offering and network of specialist integrators available worldwide (option).

Thanks to their expertise and experience, Kerlink teams are fully mobilized to help you develop your business and reduce your operational and commercial risks.

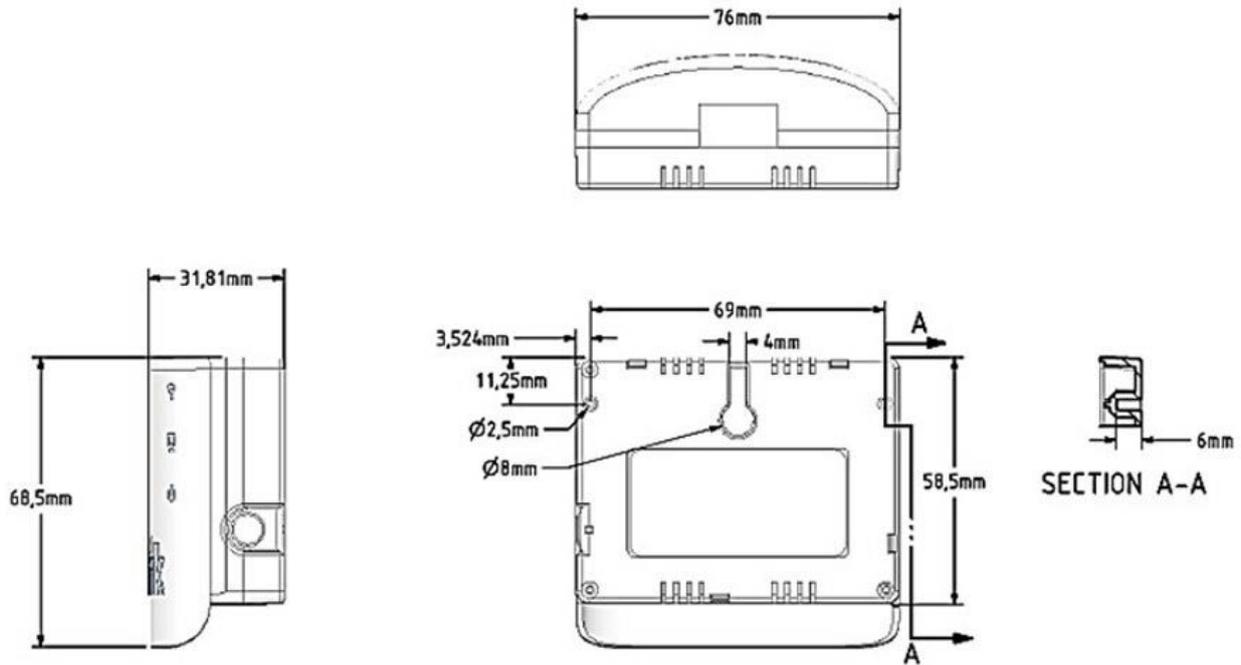
Don't hesitate to contact us:

Software Features

- **Same Software than Wirnet™ iBTS, Wirnet™ iStation, Wirnet™ iFemtoCell and iFemtoCell-evolution:** same User experience, quicker integration,
- **Dynamic web interface (On-the fly modifications),**
- **Dedicated SW environment :** impossible to install in-house SW, Configuration and Maintenance through Zero Touch Provisioning and Wanesy Management Plane (WMP) interface.

kerlink
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Certifications

868

- Europe (CE)

915

- USA (FCC)
- Canada (ISED)

(For any specific need, please contact us)

Product Ordering references

Wirnet™ iZeptoCell Cellular - Ordering references

Product Ordering References

Reference	Designation	Description	ISM Frequencies
PDTIOT-IZEC800	Wirnet iZeptoCell Cellular	8CH LoRa, Indoor, Cellular (LTE-M) backhaul	863-870 MHz
PDTIOT-IZEC900	Wirnet iZeptoCell Cellular	8CH LoRa, Indoor, Cellular (LTE-M) backhaul	902-928 MHz

868 and 915 Accessory Ordering References (Wirnet™ iZeptoCell)

Power connectivity	Designation	Description	Recommendation
KLK03566	PoE Splitter with USB A output		
KLK03537	2,8m USB C to USB A extension cable		

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