

IRIS Gateway

The bridge between IoT sensors and IT or cloud platforms.

At its core, a LoRaWAN gateway is the **bridge between IoT sensors and IT or cloud platforms**, collecting data from the field and forwarding it securely to network servers and applications.

With IRIS, customers can choose the deployment mode that fits their needs:

- **Packet forwarder – Integration with existing networks:** Transmission of radio frames to an external LoRaWAN network server. IRIS is compatible with leading LoRaWAN servers such as Actility, Lorient and The Things Stack, ensuring seamless integration into existing LoRaWAN ecosystems.
- **Embedded LoRaWAN server – Local autonomy:** Complete local network management, including sensors, data decoding and downlink management. This mode ensures fully autonomous operation, without reliance on an external LNS.



Flexible architecture

Forward to any LoRaWAN Network Server or run private networks locally.



Rugged and easy to deploy

With its IP67-rated enclosure and French manufacturing, IRIS ensures long-term reliability in both indoor and sheltered outdoor environments.



No retrofit required

Connect modern IoT sensors with legacy BMS/SCADA systems.



Always connected

Ensures reliable operation with both Ethernet and 2G/3G/4G cellular backhaul.



Fewer gateways, lower costs, same coverage

IRIS combines a competitive price with carrier-grade radio performance.

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KEY FEATURES

- **EU868** channel plan
- SX1302 **8-channel** LoRa baseband processor
- **Ethernet & 2G/3G/4G** (LTE) backhaul
- Integrated **cellular and LoRa antennas** (external as options)
- Configurable forwarding software (UDP, Basics Station)
- MQTT(S) and HTTP(S) integration with application servers
- Embedded **LoRaWAN Network Server**
- **Built-in Codec Manager** includes Adeunis' decoder library and supports JavaScript payload decoder setup
- **IP67** white enclosure
- Made in France

HARDWARE OVERVIEW & DIMENSIONS

Cut-out for the installation of a cable gland for external cellular antenna (optional).

Cut-out for the installation of a cable gland for external LoRa antenna (optional).

Ventilation (default)
Cable gland for RS485 (optional)

External power supply cable gland

Cable gland for ethernet cable

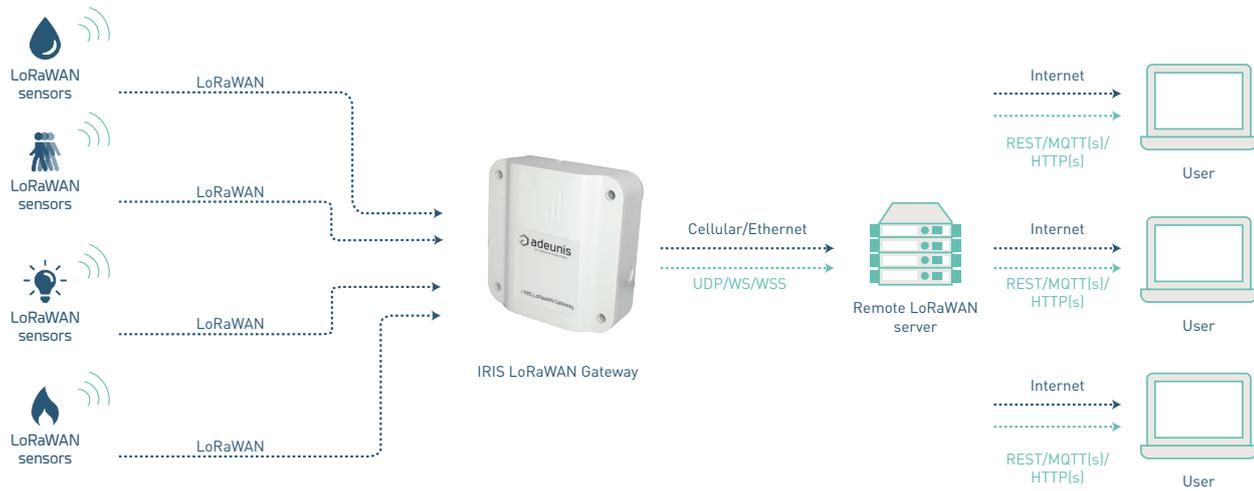


Weight: 450gr.

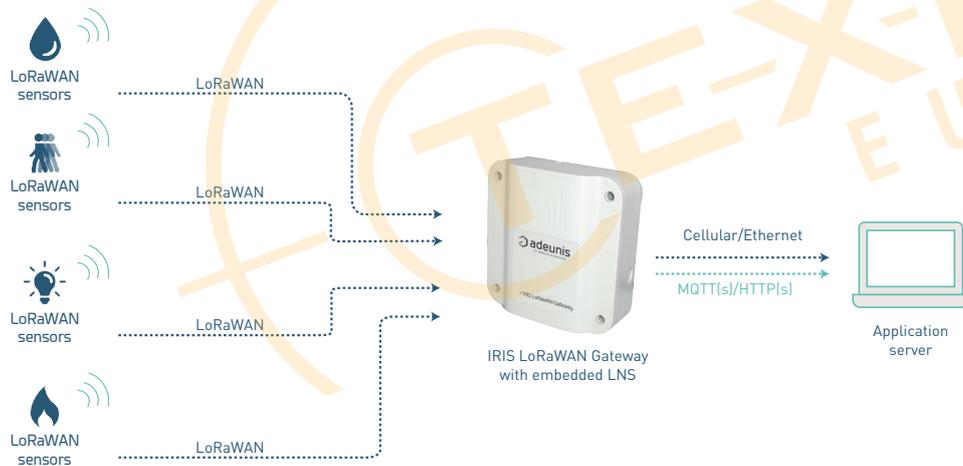
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ARCHITECTURES

Plug & play integration with remote LoRaWAN server



Embedded LNS with custom CODECs



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TECHNICAL SPECS

HARDWARE

Hardware system

IoT Module	Sierra Wireless WP7607-1
Memory	150 MB DDR2 RAM
Flash	150 MB NAND

LoRaWAN interface

Concentrator	SEMTECH SX1302
Channel	8 (Half-Duplex)
Antenna	1x internal LoRa antenna, Box output for external antenna (option)
Frequency band	EU 868
Sensitivity	-141dBm (125kHz in SF12)
Tx Power	+14dBm max.
Protocol	1.0.x and 1.1.x
Class support	Class A/C

Power Supply

Power input	DC 12/24V power supply
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Others

Button	1x button for gateway reboot 1x button for factory reset
LED Indicators	Power & factory reset

Physical Characteristics

Box	IP67
Material & Color	PC V0, White
Dimensions	160 x 150 x 55mm
Weight	450gr
Installation	Wall, desktop, DIN-rail mounting

Operating Conditions

Operating temperature	-20°C / +55°C
Storage temperature	-20°C / +70°C
Relative humidity	25% / 75% HR

Ethernet Interface

Port	1x RJ-45 WAN port (PoE not supported)
Physical layer	10/100 Base-T (IEEE 802.3)
Data Rate	10/100Mbps (auto-sensing)
Interface	Auto MDI/MDIX
Mode	Full or Half duplex (auto-sensing)

Cellular Interface

IoT Module	Sierra Wireless WP7607-1
Network	2G/3G/4G LTE
3G Bands	HSPA+, UMTS (B1, B8)
4G Bands	Cat-1 (B1, B3, B7, B8, B20, B28)
Tx Power	23 dBm
Antenna	1x 2G/3G/4G internal antenna, Box output for external antenna (option)
SIM slot	1x internal mini SIM-2FF

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TECHNICAL SPECS

SOFTWARE

LoRaWAN

LoRaWAN	LoRaWAN 1.0.x and 1.1.x specification LoRaWAN Packet forwarder LoRaWAN Network server Max endpoints supported: around 1,000 (depending on UL/DL frequencies) Supports Class A/C endpoints
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Packet forwarder

Type	Semtech UDP, Basics Station WS/WSS, Basics Station CUPS
Compatibility	Seamless integration with mainstream 3rd party LNS: Actility, Loriot, The Things Stack, Chirpstack, etc

Embedded LoRaWAN Network Server

Provisioning	One-by-one, bulk import of LoRaWAN endpoints for easy deployment
Configuration	Remote configuration for LoRaWAN endpoints Support multicast downlink
Data decoding	In-built Adeunis payload decoder library Support custom payload decoder setup (JavaScript)
Gateway fleet	Can work as a Network Server with multiple Packet Forwarding gateways connected (UDP protocol)
Integration	MQTT/s, HTTP/s

Network

Configuration	Supports 2G/3G/4G communication with WAN mobile IP assignment Network selection options Display network status Configurable APN Keep alive functionality
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Protocols	Packet forwarder: UDP, WS, WSS Network server: MQTT/s, HTTP/s Webserver: HTTP/s Others: DHCP, DNS, ARP, NTP
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Security & Firewall

TLS	1.3, mutual authentication
Access control	for local/remote access to Web GUI
Firewalls	Access control, Filtering (IP)
Certificate	CA root certificates management

Reliability

Autoreset	Configurable periodic Autoreset
Diagnostics	Log server

Device Management

Configuration	Update, Backup, restore, recover configuration Local: Web GUI
Firmware update	Local: Web GUI
Factory reset	Web GUI or button

Certifications

Certifications	CE, RED, RoHS, REACH
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ACCESSORIES

- Ethernet cable (included)
- Power adapter (included)
- External LoRaWAN, cellular antenna kits (not included)
- DIN-Rail mounting kit (not included)

COMPLEMENTARY PRODUCTS



Field Test Device to support site surveys and network validation.



Adeunis LoRaWAN sensors for energy management, comfort and maintenance.

LORAWAN SUPPORT SERVICES

Expert LoRaWAN consultancy services to support deployment and integration
24/7 helpdesk access to Adeunis' technology experts
Comprehensive documentation and integration guides included

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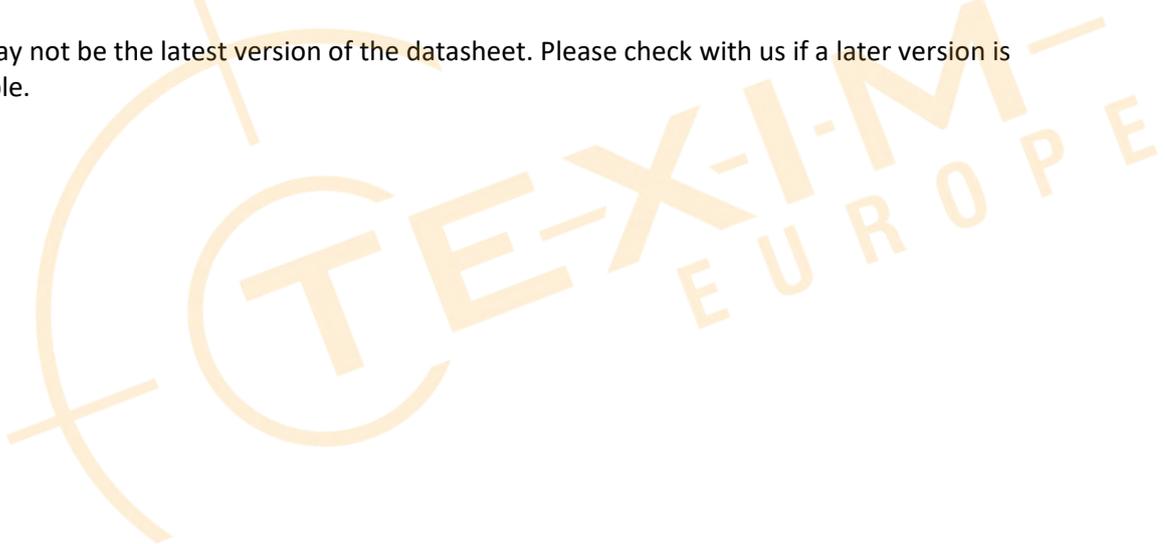
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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