



Specification: Indoor LoRaWAN gateway for Eyeris, the connected compliance solution for emergency lighting. The gateway relays the telemetry from Eyeris-enabled products to Eyeris Core over its backhaul: Ethernet, 4G or Wi-Fi.

One gateway covers a small building; larger or awkward sites take several.** Compact and light, for desktop, wall or ceiling mounting.

Key Features

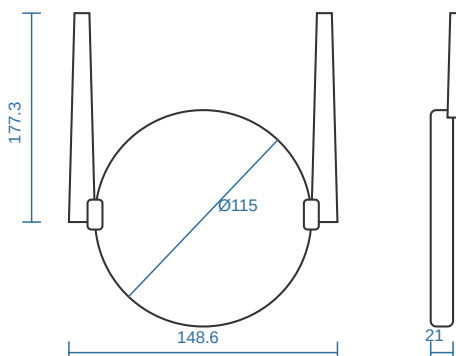
- 8-channel LoRaWAN gateway (SX1302 chip)
- Ethernet, 4G (LTE Cat 1) and Wi-Fi backhaul
- Link backup between connections
- Around 2,000 Class A/B/C devices*
- Low power: typical 1.3 W, max. 3.1 W
- Powered by USB-C or 5–12 V DC
- Desktop, wall or ceiling mounting

* Depending on uplink and downlink traffic

** Coverage subject to site survey

Part number	Description	Backhaul	LoRaWAN band	Operating temperature	Ingress protection	Net weight
GW1-LR4G	EYERIS LoRaWAN gateway, indoor	Ethernet, 4G, Wi-Fi	EU868	-20°C ~ +50°C	IP30	158g

The gateway is supplied with a USB-C cable (1 m), a power adapter and two wall-mount screw sets.



Dimensions in mm. Body Ø115 × 21 mm (antennas excluded).

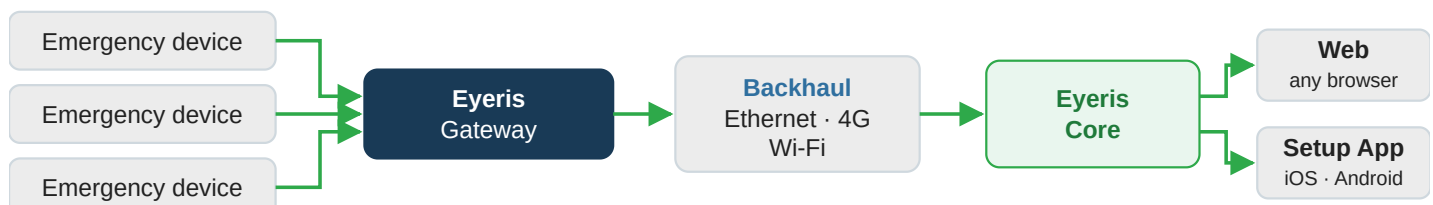


Eyeris monitors every connected emergency device: live status, alerts, and function and duration tests run on a schedule, in groups, so the site keeps cover.

Every test is recorded, with a dated PDF report, ready to view, download or email.

Routine visual inspection is still required for total compliance.

HOW IT WORKS



EYERIS Gateway

LoRaWAN	
Channels	8 (half-duplex)
Frequency band	EU868
Sensitivity	-140 dBm @ 292 bps
Tx power	Max. 27 dBm
Antenna	1 × external
Devices	Around 2,000 Class A/B/C*
Advanced features	Packet filter, data retransmission

Cellular	
Network	4G LTE (Cat 1) / GSM
LTE-FDD bands	B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66
LTE-TDD bands	B34/38/39/40/41
GSM bands	B2/3/5/8
Tx power	LTE Class 3 (23 dBm ±2 dB)
SIM slot	1 × Micro SIM (3FF)
Antenna	1 × external

Ethernet	
Port	1 × RJ45 WAN
Physical layer	10/100 Base-T (IEEE 802.3)
Data rate	10/100 Mbps (auto-sensing)
Interface	Auto MDI/MDIX
Mode	Full or half duplex (auto-sensing)
Isolation	1.5 kV RMS

Wi-Fi	
Standard	IEEE 802.11b/g/n, 2.4 GHz
Client mode	WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK
Access point mode	Set-up only (WPA-PSK)

Hardware	
CPU	Dual-core 240 MHz, 32-bit
Memory	8 MB PSRAM
Flash	16 MB

* Depending on uplink and downlink traffic ** Coverage subject to site survey

INSTALLATION NOTES

- Indoor use (IP30)
- Connect by Ethernet, 4G (SIM) or Wi-Fi
- One gateway covers a small building**

Power	
USB-C	5 V / 2 A
DC	5–12 V (DC power cable)
Power consumption	Typical 1.3 W, max. 3.1 W

Physical	
Housing	PC + ABS
Colour	White
Ingress protection	IP30
Dimensions	Ø115 × 21 mm (antennas excluded)
Weight	158 g
Installation	Desktop, wall or ceiling
LED indicators	1 × system, 1 × LTE
Button	1 × reset
USB	1 × USB 2.0 Type-C (power, console)

Network and management	
VPN	OpenVPN client
Reliability	Link backup
Configuration	Web, MQTT API
Firmware updates	Web
Diagnostics	Ping
Built-in	Watchdog, timer

Environment and approvals	
Operating temp.	-20°C ~ +50°C
Storage temp.	-40°C ~ +85°C
Relative humidity	0–95% (non-condensing) at 25°C
Regulatory	CE, CE (RED), FCC, RCM
Environmental	RoHS

Eyeris automates the testing and record keeping of the emergency lighting it is connected to. Routine visual inspection is still required for total compliance.

Arrange a demonstration now.

Why wait? Become compliant today: contact us below.

- Desktop, wall or ceiling mounting
- Power by USB-C or 5–12 V DC
- Larger or awkward sites take several