

OWLET GTW WS

The OWLET GTW WS - OWLET WiSUN gateway - enables seamless integration between OWLET IV mesh controllers and the Schröder EXEDRA platform. Based on the Wi-SUN FAN (Field Area Network) standard, it provides secure, scalable, and interoperable wireless communication between a wide range of smart city devices.

Acting as a bridge between the mesh network and IP-based systems, the gateway collects and transmits data to Schröder EXEDRA for real-time monitoring, analysis, and control of street lighting

infrastructure. The gateway enhances the scalability of the OWLET IV solution by connecting local mesh networks to the cloud, which enables centralised management of lighting assets. It offers a new resilience layer to the OWLET IV solution and increases versatility for customers with diverse challenges and deployment needs. It supports both Ethernet and 4G/LTE connectivity and can be installed in cabinets or mounted on poles or walls. Its robust aluminium enclosure ensures reliable performance in demanding outdoor environments.



Pole | Wall



Cabinet

Connected with



Key features and benefits

- **Seamless integration** Connects OWLET IV luminaire controllers with Schröder EXEDRA for unified smart lighting management
- **Flexible connectivity** Supports Ethernet and cellular (4G/LTE) for reliable and redundant communication
- **Robust mesh networking** Utilises 2.4GHz Wi-SUN for self-healing, scalable mesh connectivity
- **Edge computing capabilities** Enables local data processing for faster response times and reduced cloud dependency
- **Versatile installation** Can be installed inside a cabinet or mounted on a pole or wall
- **Durable design** Enclosed in a rugged aluminium housing for long-term outdoor performance
- **End-to-End security** Ensures secure data transmission from field devices to the cloud

TECHNICAL INFORMATION - OWLET GTW WS

Gateway	
Low-power mesh	IPv6, RPL, 6LowPAN, MAC - IEEE 802.15.4e, PHY - IEEE 802.15.4.g @ 2400 MHz
RF Connector	N Type

Cellular	
Bands	LTE-FDD B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28,
	LTE-TDD B38, B39, B40, B41
	WCDMA B1, B2, B4, B5, B6, B8, B19
	GSM B2, B3, B5, B8
Connectors	N Type

Ethernet	
Ports	RJ-45 10Mbps/100Mbps/1000Mbps

Serial	
Ports	1x RS485 (half-duplex) / RS232 port, terminal-block 1x serial console via UART-to-USB bridge, micro-USB connector

Housing	
Enclosure	Die-cast aluminium
Colour	White
Weight	~2.6 kg
Status LEDs	Power, Cellular/Internet, Wi-SUN
Protection class	IP67

Power requirements	
Voltage (L - N)	110-240Vac ± 10%
Frequency	50/60Hz ± 5%
Power consumption	Average: 5W Maximum: 7W

Environmental	
Operating temperature	-40° C to 65° C (-40° F to 149° F)
Relative humidity	5% to 95% (non-condensing)

Standards & Certificates	
Approvals	CE UKCA
Standards	RE Directive (2014/53/EU) 2011/65/EU (RoHS) and its amendments (EU) 2015/863, (EU) 2017/2102

Electrical Safety	UL/IEC 62368-1 3.0
EMC	EN 55032:2015/AC:2016/A1:2020/A11:2020 EN 55035:2017/A11:2020 ETSI EN 301 489-1 V2.2.3 2019 ETSI EN 301 489-17 V3.3.1 2024 ETSI EN 301 489-19 V2.2.1 2022 ETSI EN 301 489-52 V1.3.1 2024
Radio / Telecommunications	ETSI EN 300 328 V2.2.2 2019 ETSI EN 301 511 V12.5.1 2017 ETSI EN 301 908-1 V15.2.1 2023
Human exposure	EN 62311:2008
Environmental / RoHS Compliance	IEC 62321 RoHS

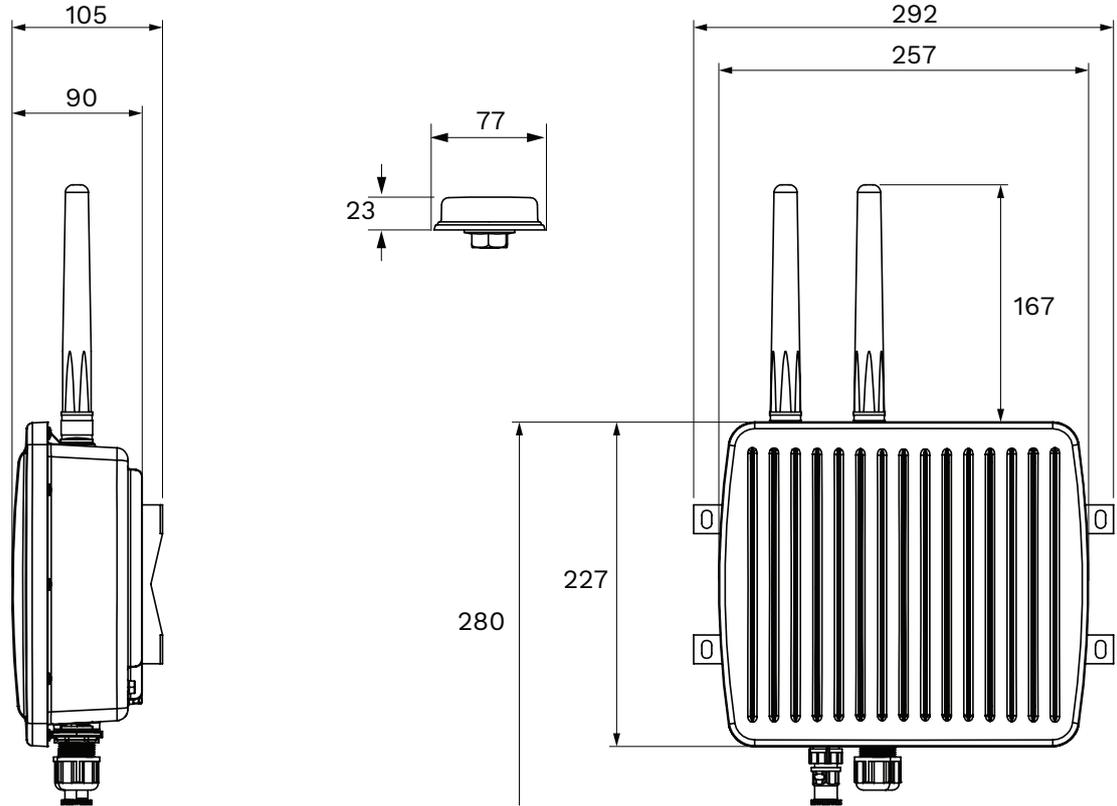
Ordering information

Model	Part number
CELLULAR ETHERNET POLE	04-05-659
CELLULAR ETHERNET CABINET	04-05-677



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Dimensions (mm)



Connections

