Faro Gateway LoRa IoT Gateway





Enjoy enhanced connectivity for your electric vehicle chargers with Unico's Faro™ Access Point.

- Long Range (LoRa) radio based technology easily penetrates concrete walls and offers 3-10x better coverage than traditional Wi-Fi, reducing capital costs.
- Each Faro you can control up to 80 EV chargers.
- Secure Communication
- Also provides Wi-Fi hot-spot

FEATURES

- Communication via ultra secure Long Range (LoRa) wireless technology.
- Fully Compatible OCPP 1.6j EVSEs (EV Chargers)
- Indoor or Outdoor NEMA Type 4 Enclosure
- Can be daisy chained to reduce cable and conduit runs.
- Powered over Ethernet from EMS cabinet to eliminate the need for separate outlets and power supplies.
- Smart device that is can be remotely configured, controlled and supported
- Low power input but long range output maximizes power efficiency.
- Scalability. Up to 80 devices on a single Faro enclosure.
- Interference Tolerance. Spread spectrum modulation provides better resistance to interference, resulting in reliable communication even in noisy environments.

BENEFITS

- Lower cost. Longer range means fewer access points are required to cover the same area. This results in significantly reduced capital costs.
- Simple Installation. The Faros connect directly to the Unico Power Cerebro[™] Energy Management System cabinet eliminating network system switches and components, simplifying installation and commissioning. Use of the Faro Daisy allows multiple Faros to be run from one cable/conduit run.
- Reliable Operation. Local control means that the system continues to operate when the building or region suffers internet outages. The Faro Duo option provides built in redundancy without installing additional access points.
- Future Ready. Use of LoRa means that the Faros can communicate with other Internet Of Things devices and systems including Batteries, Solar, Demand Response, and Building Automation.
- Wi-Fi hotspot allows for higher bandwidth requirements such as vehicle software updates.

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SPECIFICATIONS			
Enclosure – Indoor (Standard) or Outdoor	Molded Flame-retardant ABS enclosure. Indoor – NEMA 1 Outdoor NEMA 4X/IP68	Backhaul Communications Connection	CAT 6 or CAT 5e Cable (max length 100 meters)
Supply Voltage	Power Over Ethernet 802.3af 44-57 VDC	Range	3-10x standard Wi-Fi (2.4 GHz 802.11)
Max Output Power	21 +/- 1 dBm	Safety	Class 2 Power Device UL 94 5VA
Weight	454 grams (1 lb)	Warranty	5 Years
Mounting and Installation	Wall, mounting ears included. EMT – 1" hole for Ethernet cable entrance (field fit)	Communication Standards	FCC-Part 15, 902-928 MH ISM band Wi-Fi: 802.11 b, g, and n up to 150 Mbps
Dimensions (W X H X D)	4.62 in x 7.62 in x 2.25 in / 117 mm x 194 mm x 57 mm	Microprocessor	ESP32-S3FN8 (dual-core)
Operating Temperature	-30 to +50° C Ambient Passive Cooling	Options/Variants	Faro Daisy – connect up to two faros in series, Faro Duo – two Gateways in one enclosure for redundancy

Contact: