

The Panoramic Power™ Gen 4+ Bridge is a critical connectivity hub that enables real-time energy intelligence by seamlessly collecting and transmitting data from Panoramic Power's wireless sensors. With Wi-Fi, Ethernet, and optional LTE connectivity, the Gen 4+ Bridge ensures reliable and secure data transmission to the Panoramic Power software platform or third-party energy management platforms via Modbus TCP.

Engineered for plug-and-play installation, the bridge supports remote firmware updates and built-in redundancy, ensuring continuous data availability even in the event of network interruptions.

- **Plug-and-Play Installation**
- **Multi-Network Connectivity**
- **Data Redundancy**
- **Secure & Reliable**
- **Field-Upgradable Firmware**
- **Seamless Integration**

GEN 4+ BRIDGE



Physical & Power

| Specification | Gen 4+ Bridge |
|-------------------------------|--|
| Dimensions (without antennas) | 111 × 87 × 35 mm (4.4 × 3.4 × 1.4 in) |
| Weight (with antennas) | 150 g (0.33 lb) |
| Power Adapter (Included) | Input: 100-240 VAC, 50-60 Hz Output: 5 VDC |
| Power Consumption | 5 W max |

Pulse Interface

| Feature | Specification |
|-------------------|---|
| Pulse Inputs | 2x KY inputs |
| Voltage & Current | 5 V open voltage, 0.9 mA max current |
| Pulse Rate | 5 ms minimum pulse width, 100 Hz maximum rate |

Connectivity & Communication

| Feature | Specification |
|----------------------------------|--|
| Sensor Receiver Frequency | 915 MHz (US), 434 MHz (EU) |
| Sensor Reception Sensitivity | -105 dBm |
| Cellular Bands (LTE Models Only) | US: B2(1900) / B4(AWS1700) / B12(700) EU: B1(2100) / B3(1800) / B7(2600) / B8(900) / B20(800) / B28A(700) |
| Wi-Fi Protocol | 802.11 b/g/n |
| Wi-Fi Security | WEP64, WEP128, WPA, WPA2, WPA2-Enterprise |
| Data Compression | Sensor data is collected and transmitted every 10 seconds to optimize bandwidth |
| Authentication | CHAP protocol used for identity verification |

CERTIFICATIONS & COMPLIANCE



USA & CANADA

Safety UL 61010-1, UL 61010-2-030, CAN/CSA-C22.2 No. 61010-1 (ETL listed)

EMC FCC Part 15 Subpart B, ICES-003

Radio FCC Part 15 Subpart C, RSS-210, RSS-Gen

PTCRB Listed



EUROPE & UK

Safety EN 61010-1, EN 61010-2-030 (CE)

EMC EN ETSI 301 489-1, 301 489-3, 301 489-17, 61326-1, 61000-3-2, 61000-3-3

Radio EN ETSI 300 220-1, 300 220-2, 300 328

CB scheme IEC 61010-1, IEC 61010-2-030 performed by Intertek Testing Services.

In all other countries, our local partners are responsible for product certifications.



OTHER TECHNICAL RATINGS

Flammability Rating (Enclosure) UL94 V-0

Ingress Protection (IP) IP5X

Operating Temperature -25 – 60°C (-13 – 140°F)

Humidity Range 5% – 95% (non-condensing)

Storage Temperature -25 – 65°C (-13 – 149°F)

PRODUCT VARIANTS

The Gen 4+ Bridge is available in two versions to accommodate different deployment needs:

Gen 4+ Bridge (LAN):

Supports Ethernet and Wi-Fi connectivity

Gen 4+ Bridge (LTE):

Supports Ethernet, Wi-Fi, and LTE connectivity (with 3G fallback in the US model and 2G fallback in the EU model)

MODEL NUMBERS BY REGION

Gen 4+ Bridge (LAN)

Gen 4+ Bridge (LTE)

60 Hertz regions

PAN-2-H-US V4+ (LAN)

PAN-2-H-3G-US V4+ (LTE)

50 Hertz regions

PAN-2-H-EU V4+ (LAN)

PAN-2-H-3G-EU V4+ (LTE)