

# Panoramic Power

# Gen 4+ Bridge Technical Specifications

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)