

## Secure, scalable wireless monitoring

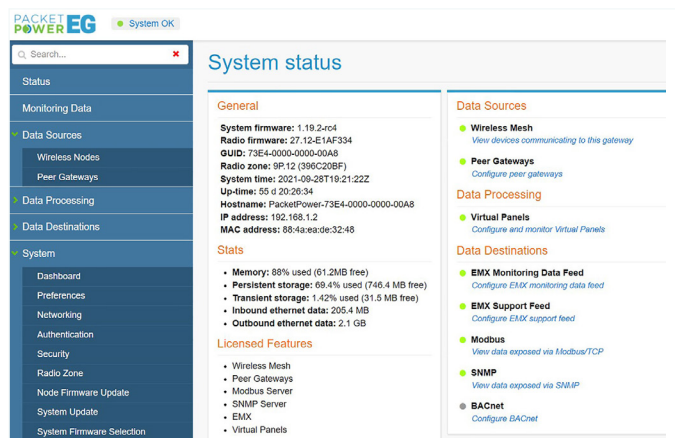
Ethernet Gateways collect monitoring data from Packet Power wireless monitoring devices and make it accessible over your data network. Gateways are simple to install, easy to use, secure and scalable. Our self-configuring, self-optimizing mesh network makes adding Gateways and monitors easy.

## Gateway Features

Easily and securely connect monitoring data to your network



- Each gateway can support up to 100 Packet Power environmental and power meters
- Load is automatically balanced across gateways when monitoring units are added or removed
- Multiple gateways can be added to increase network capacity and provide redundancy
- Supports wireless firmware updates to all monitoring devices
- Includes mounting bracket and DIN clip
- Provides a sophisticated panel circuit mapping tool
- Can send data to any DCIM or BMS using a variety of open protocols
  - BACnet
  - Ethernet/IP
  - Modbus TCP/IP
  - MTConnect
  - SNMP V1/V2c/V3
- “Master” capability simplifies integration in multi-gateway installations by making all data accessible from one gateway
- Extensive management console capabilities



Gateway management console

## Gateway Models

Integration Protocol	BACnet	Ethernet/IP	Modbus	MTConnect	SNMP	EMX only
Up to 100 meters/gateway	GW04-00BE	GW04-00EE	GW04-00ME	GW04-0MTE	GW04-00SE	GW04-000E
Up to 30 meters/gateway	GW04-00BL	GW04-00EL	GW04-00ML	GW04-0MTL	GW04-00SL	GW04-000L

All Gateway models support integration with Packet Power EMX Energy Portal monitoring software. Models with additional protocol integration may also communicate to EMX simultaneously.

# Technical Specifications

## Communications

Operating frequency	860 to 930 MHz and 2.4 GHz (frequency used varies by region)
Wireless protocol	Frequency hopping self-configuring load-balancing mesh
Wired network protocol	HTTPS to Packet Power EMX running locally or as cloud service; Optional: BACnet, Ethernet/IP, Modbus TCP/IP, MTConnect, SNMP V1/V2c/V3
Firmware updates	Wireless
Typical transmission range	10 to 30 meters indoors between any two devices in the mesh network
Antenna	Fully enclosed, fixed configuration
Monitoring unit to gateway ratio	Up to 100 monitoring units per gateway
Gateways per site	Unlimited
Multi-site support	Yes
Encryption	HTTPS
Compatible devices	All Packet Power monitoring units
Local display	OLED screen for status and configuration; LEDs for general device status

## Environmental & Mechanical

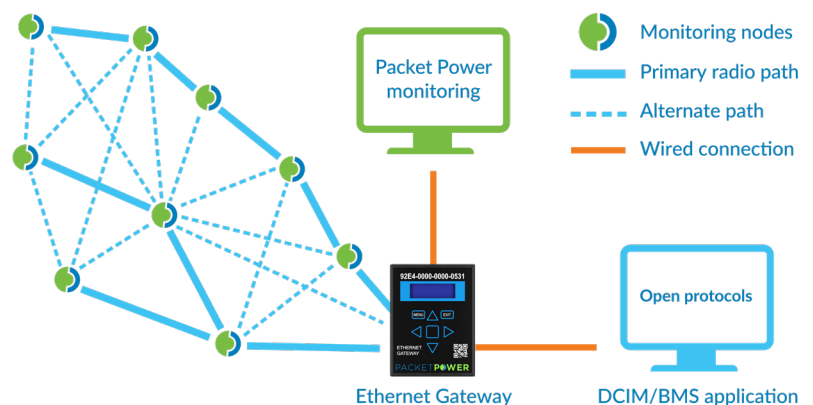
Operating temperature	0° to 40°C (32° to 104°F); 10% to 90% non-condensing
Environmental rating	Indoor use / NEMA 1
Gateway size	Dimensions: 76mm x 94mm x 31mm; Weight: 136g (4.8 oz)
Placement	Flexible (but should not be surrounded by metal)
Mounting options	DIN rail, screw, or cable tie
External power supply	100 to 240V, 50/60 Hz AC input; 5V DC output. Optional 48:5V DC supply available
Plug types	C14, NEMA 5-15, CEE-7 Schuko, AS/NZS 3112 2000, BS 1363A, BS 546A, China CPCS-CCC
Power usage	6W
Power over Ethernet	Available, requires an external PoE splitter
Certifications	FCC, IC, CE; consult Packet Power for additional certifications

## Secure Wireless Technology

*Proven in critical facilities worldwide*

Packet Power's wireless protocol was designed specifically for critical facilities. To enhance security, the advanced mesh protocol can only be used for monitoring, distinguishing it from general purpose protocols such as WiFi or Zigbee. It also provides for a complete separation of the wireless monitoring network from the wired data network.

Our unique wireless network is proven to work in data centers and other critical facilities run by major financial services firms, government agencies, educational institutions, telcos and colos worldwide.



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