PACKET POWER

WIRELESS ETHERNET GATEWAY

SIMPLE TO INSTALL..
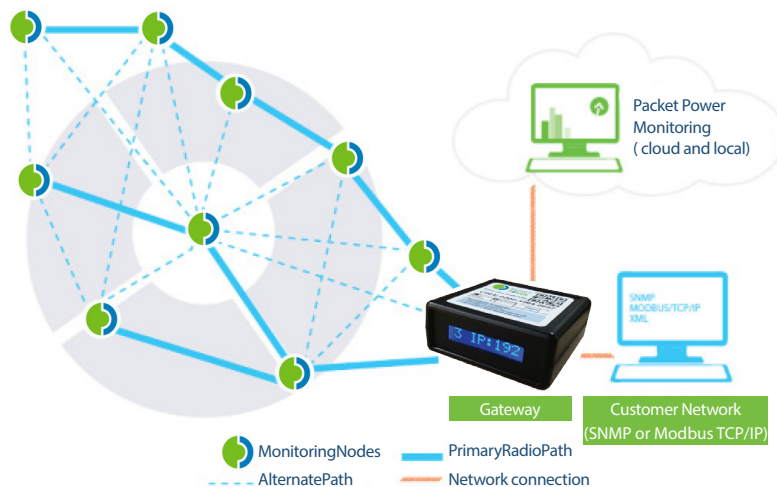*SELF CONFIGURING...*
SECURE...
SCALABLE...

The self configuring wireless network gateway that is simple to install, easy to use, reliable and affordable.

The EG3 wireless Ethernet Gateway forms the heart of the Packet Power monitoring network. What makes the EG3 and Packet Power different from any monitoring solution is the simplicity of installation, ease of use and scalability. **A single EG3 Gateway can support a network of up to 300 Packet Power monitoring devices.** Adding devices is simple with the network automatically detecting and self configuring new devices. Multiple Gateways can be used for redundancy or capacity and will automatically balance the network load. Gateways also aggregate information from all monitors into a single IP address, further simplifying network management.

Networks security is assured using a pseudo random frequency algorithm, proprietary communications protocol and a 900 MHz out of band network that is not visible or accessible by standard network devices. Available 128 bit encryption adds a further layer of security. Data can be exported as SNMP or Modbus to interface with just about any third party monitoring software or directly to Packet Power's EMX Portal, a cloud based or locally installed application that has all the functionality of an intuitive energy and environmental monitoring system in a plug and play format.

FEATURES

▶ Forms a self configuring mesh network with automated setup of new devices

▶ One Gateway can support up 300 monitors using a single IP address

▶ Scalable from a few monitoring devices to thousands just by adding Gateways

▶ Supports a fully redundant architecture

▶ Automatic load balancing when new Gateways are added

▶ Compatible with all Packet Power monitoring devices on the same network

▶ Secure: 128 bit encryption, pseudo random frequencies, invisible network non-communicable with WiFi

▶ Uses 900 MHz for improved propagation in data centers

▶ Supports wireless firmware updates to all monitoring devices

▶ Local status display

▶ Open protocol connectivity: Proven integration with third party monitoring systems using SNMP or ModbusTCP/IP protocols (vendor neutral)

▶ Global certifications

▶ Proven on close to 40,000 installations

PACKET POWER NETWORK ARCHITECTURE

THE CONVENIENCE OF WIRELESS WITH THE RELIABILITY OF A WIRED NETWORK:

Packet Power Monitoring (cloud and local)

SNMP MODBUS/TCP/IP XML

Gateway

Customer Network (SNMP or Modbus TCP/IP)

MonitoringNodes
PrimaryRadioPath
AlternatePath
Network connection

Packet Power's self configuring mesh network delivers all the advantages of wireless connectivity while eliminating the traditional difficulties associated with wireless propagation and system configuration. If a direct connection to the Gateway is not optimal, the system routes the data through other monitors, optimizing each path with every transmission.

COMMUNICATIONS

Operating frequency	From 860, 930MHz and 2.4 GHz (specific frequency used varies by region)
Wireless protocol	Proprietary frequency hopping, self-configuring, load-balancing mesh network
Wired network protocol (Gateway only)	TCP/IP (one IP address needed per Gateway) with SNMP and Modbus protocol support available on certain models
Firmware updates	Wireless
Typical transmission range	10 to 50 meters indoors from any one device to any other
Antenna	Fully enclosed, fixed configuration
Monitoring Unit to Gateway Ratio	From 100 to 300 monitoring units per gateway depending on desired data collection rate and Gateway model
Gateways per site	Unlimited
Multi-site support	Yes
Encryption	Optional 128-bit
Compatible devices	All Packet Power modules may be combined in the network

OPERATING ENVIRONMENT

Operating temperature	0° to +40° C (+32° to +104°F)
Operating humidity	10% to 90% non-condensing
Water and dust resistance	Indoor use
Maximum operating altitude	2,000 meters (6,561 feet)
Mounting	Typical: on top of server cabinet, under a cable raceway, under a raised floor

DISPLAY

LCD	LCD display for status and configuration details
LED	Indicates general device status

SIZE AND WEIGHT

Ethernet Gateway	65 mm (2.6") x 65 mm (2.6") x 28 cm (1.1"), 65 g (3 oz)

POWER SUPPLY

External Power Supply	100- 240VA/C input voltage, 50-60Hz (5 VDC output) (72mm x 43mm x 29mm)
Safety Standards	EN60950 UL60950 IEC60950
Plug Types	NEMA 5-15, CEE-7 Schuko, AS/NZS 3112 2000, BS 1363A, C14, BS 546A
Power Consumption	0.7W
Power over Ethernet	Available. Requires an external PoE splitter on a PoE enabled switch. If the switch does not provide native PoE support, a PoE injector is also required.

CERTIFICATIONS

FCC, UL, CE

AVAILABLE CONFIGURATIONS

Monitoring units

Model	SNMP	Modbus/TCPIP	Usage
GW03-0000	No	No	Use with Packet Power EMX software (local or cloud)
GW03-00SS	Yes	No	SNMP Solo: single-gateway deployments of 300 monitoring units or less
GW03-00SE			SNMP Enterprise: multi-gateway sites All models support Virtual IP addresses and can concurrently send data to EMX (local or cloud) if desired.
GW03-00MS GW03-00ME	No	Yes	Modbus Solo: single-gateway deployments of 300 monitoring units or less Modbus Enterprise: multi-gateway sites All models can concurrently send data to EMX (local or cloud) if desired.

COMPATIBLE DEVICES

Three Phase Power monitors embedded into busway, panelbaords, and PDUs.

Smart Power Cable monitors embed precise power and temperature monitoring into a power cord format.
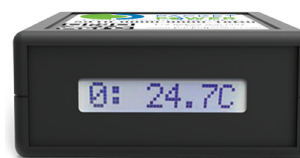

Temperature

Humidity

Differential Pressure

Environmental and auxiliary device monitoring; Monitors up to six temperature zones, differential pressure, humidity and dry contacts .

PACKETPOWER

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