Wireless Network Connector

No more "stranded" smart devices

Wireless Network Connectors provide an easy way to make select metered devices that aren't currently networked work over Packet Power's wireless mesh network. Access the data easily via an Ethernet Gateway using standard protocols or Packet Power's EMX monitoring software.

Wireless Network Connector Features

- Auto-detects certain smart devices from a number of manufacturers
- Instantly connects to Packet Power's self-configuring, self-optimizing wireless mesh network
- Local LCD display verifies correct operation
- Supports up to two optional temperature probes
- Includes mounting bracket and DIN clip

- Monitoring data can be sent to Packet Power's EMX Energy Portal or any DCIM or BMS using BACnet, Ethernet/IP, Modbus TCP/IP, MTConnect, or SNMP
- Powered by external 100-240V AC power supply that supports most plug types including C13
- Some power strips can power the WNC directly from USB or other ports

Supported Devices

Brand	Device type	Models*
APC	Power strip	AP78XX, AP79XX, AP88XX
APC	ATS	AP77XX
Austin Hughes	Power strip	InfraPower with IP dongle
Geist	Power strip	Devices using IMD-02 and IMD-03 meter platforms
Janitza	Power meter	UMG 96RM
Liebert (now Vertiv)	Power strip	MPH devices using RPC-2 communication module
RLE	Leak detection controller	LDRA6
Sage	Mass flow gas meter	Paramount
Schneider	Power meter	PM5XXX
Servertech	Power strip	Supported PRO2 PDUs

*May not be compatible with all firmware release levels and configuration settings

New devices are added based on customer need. See https://dox.packetpower.com/Wireless-Network-Connector.html for most current list of supported devices.

Technical Specifications

Communications

Measurements	Vary based on the smart device connected to
Operating frequency	860 to 930 MHz and 2.4 GHz (frequencies vary by region)
Wireless protocol	Frequency-hopping, self-configuring, load-balancing mesh
Wired network protocols	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 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
Supported devices	See https://dox.packetpower.com/Wireless-Network-Connector.html for most current list
System status	Local LCD display

Environmental & Mechanical

Operating environment	0° to 40°C (32° to 104°F); 10% to 90% non-condensing
Environmental rating	Indoor use / NEMA 1
Size	Dimensions: 65mm x 65mm x 28mm; Weight: 70g (2.5 oz)
Mounting options	DIN rail or screw
External power supply	100 to 240V, 50/60 Hz AC input; 5V DC output. Optional 48:5V DC supply available
Power cord	1.5 m cord length
Plug types	C18, NEMA 5-15, CEE-7 Schuko, AS/NZS 3112 2000, BS 1363A, BS 546A, China CPCS-CCC
Power usage	0.5 W
Power over Ethernet	Available, requires an external PoE splitter
Certifications	FCC, IC, CE; consult Packet Power for additional certifications

How the Wireless Network Connector Works
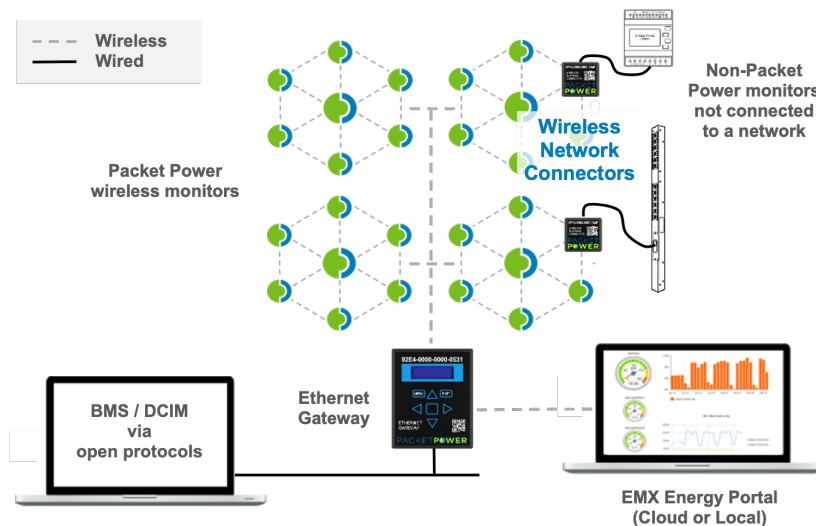
Connect the Wireless Network Connector (WNC) into the Ethernet or serial port of a supported device and connect the WNC's power supply. The WNC recognizes the connected device and immediately begins to send data across Packet Power's wireless mesh network similar to other Packet Power wireless monitors.

EMX or any BMS/DCIM can access monitoring data from an Ethernet Gateway using BACnet, Ethernet/IP, Modbus TCP/IP, MTConnect or SNMP.