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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SmartZone™ Network-Enabled M Series Rack PDU (for Aggregate Power Monitoring)

specifications

Network-Enabled M (Monitored) Series Rack Power Distribution Units (PDUs) safely and efficiently manage and distribute power to installed equipment and are available in a range of electrical and outlet configurations that cover all global regions. Network-Enabled M Series Rack PDUs connect directly to the network to provide local and remote monitoring of aggregate power, and environmental data to quickly identify potential power issues, and reclaim available or under-utilized power capacity. Network-Enabled M Series Rack PDUs integrate with comprehensive DCIM software platforms, to access current and historical trending information, and event notification alarms. For more specialized applications, Panduit offers a custom made service which involves designing and manufacturing a rack PDU to meet exact customer specifications.



technical information

Dimensions:	32A or smaller vertical units: 70"H x 2.5"W x 2.36"D (1778mm x 64mm x 60mm) 50A or larger vertical units: 70"H x 3.25"W x 2.36"D (1778mm x 82mm x 60mm) Horizontal units: 1.73"H x 17.0"W x 8.84"D (44mm x 432mm x 225mm)
Packaging:	3-meter or 10 foot long power cord, screws, and tool-less button mounting
Mounting:	Vertical power strips provide multiple outlets and do not occupy any rack spaces Horizontal units mount via EIA 19" equipment mounting rails
Amperage ratings:	Global: 16, 32 Amps NA: 20, 30, 50, 60 Amps

key features and benefits

Aggregate power monitoring	Performs real-time monitoring of aggregate rack PDU current, voltage, kVA, kWhr, Power Factor, kW, and Frequency loads to monitor, document, and manage operational power utilization
Remote power monitoring	Allows users to remotely access, configure, or manage units, minimizing costly downtime and travel times to service equipment
Low profile breakers	Low profile circuit breakers reduce the PDU depth preventing obstruction within the back of the cabinet
Environmental monitoring	Includes two available ports for the connection of (optional) environmental sensors that monitor cabinet conditions such as temperature, humidity, and airflow to facilitate capacity management, and identify potential causes of equipment failure
Alarm thresholds	Enables users to define critical power or environmental thresholds that, if reached, will prompt alarm notifications for resolution to ensure operational resilience
LCD digital display	Displays a visible on-unit warning when the current draw of rack PDU is close to the maximum Amp draw levels, helping to quickly identify and resolve concerns and avoid risk of overloaded circuits
Integrated locking receptacle	Protects against vibration and external elements that can easily dislodge external locking clips or guides; works with any standard IEC power cord (See part descriptions for applicable Rack PDU models)
Customizable configurations	Offers standard or customizable builds with single or three phase options, a range of current ratings, and different power outlets that can be adapted for varying power requirements
SmartZone™ Software integration	Captures actionable power and environmental data that can be utilized by SmartZone™ Software to enable data center operational and energy efficiencies, capacity management, and resilience

applications

The SmartZone™ Network-Enabled M Series Rack PDU safely and efficiently manages and distributes power to multiple rack or cabinet devices via a single power connector. It can be deployed and utilized as a standalone "intelligent" rack PDU.

The SmartZone™ Network-Enabled M Series Rack PDU is available for order as standard "off-the-shelf" units for most common requirements, or as customized build configurations that are designed and manufactured to meet exact product requirements.

The SmartZone™ Network-Enabled M Series Rack PDU offers a variety of horizontal and vertical mounting options that support simple flexible installations for Panduit® Net-Access™ and Net-SERV® Cabinets, or 2- and 4-post racks.

As part of a fully intelligent data center or DCIM solution, the SmartZone™ Network-Enabled M Series Rack PDU captures aggregate Rack PDU power and environmental data that can be used by SmartZone™ Software to more effectively manage and optimize operational efficiencies.

SmartZone™ Network-Enabled M Series Rack PDU

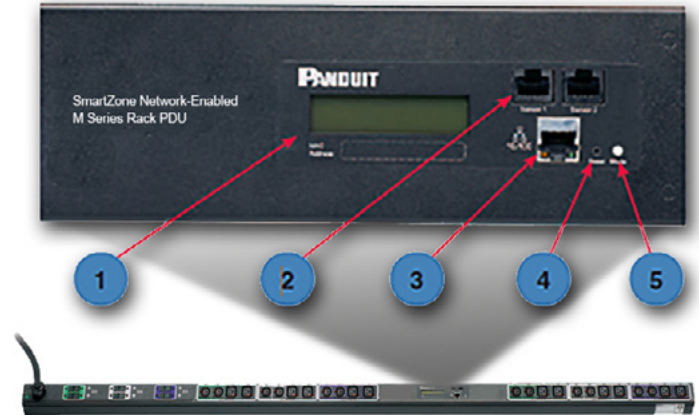
(for Aggregate Power Monitoring)

test data

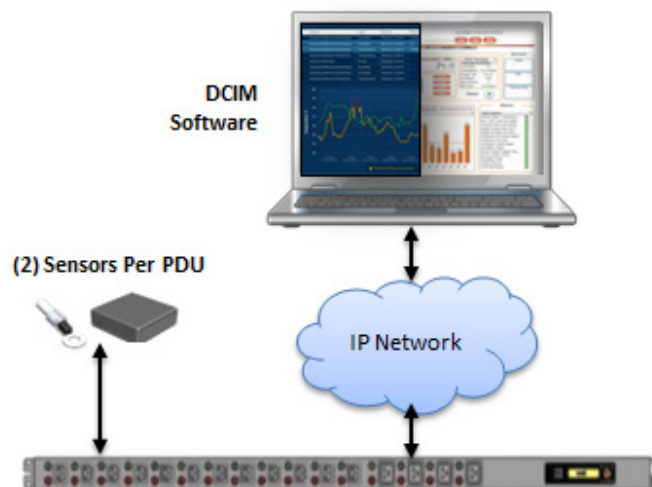
Parameter	Value
Mounting	Tool-less button style
Upgradability	Firmware upgradeable
Network Connection	RJ45 socket
Connectivity	10/100 MB Ethernet
Supported Protocols	HTTP, HTTPS, SNMP, NTP, SMTP
Operating Temperature	50°F to 104°F (10°C to 40°C)
Rated Voltage	120, 208, or 230/400 VAC (Three phase), 120, 208, or 230 VAC (Single phase)
Rated Current	Up to 63A AC Nominal
Rated Frequency	48 to 62Hz

local display features

1. **Local LCD Display** – Shows the firmware version number, device model number, serial number, MAC Address, IP Address, power and environmental sensor readings
2. **Remote Sensors** – Includes two RJ45 connector ports to monitor environmental conditions, and transmits SNMP-based or email alert notifications when conditions exceed defined thresholds
3. **Network Connection** – 10/100 MB Ethernet connection for remote power monitoring
4. **Reset** – Reboots the processor
5. **Mode** – Allows reset to defaults and changes the displayed information on the LCD



network-enabled rack PDU connection to the network



SmartZone™ Network-Enabled M Series Rack PDU

(for Aggregate Power Monitoring)

part numbers

Item Number	Item Description
SmartZone™ Network-Enabled M Series Rack PDUs (Global)	
Q1N1B3H0A30AXA0	16 A Single Phase Vertical Rack PDU, 230V 30 IEC C-13 receptacles, IEC 60309-6H 2P+E plug
Q1N2B2Q0A30AHA0	16 A Three Phase Vertical Rack PDU, 230/400V, WYE 24 IEC C-13 and 6 IEC C-19 receptacles, IEC 60309-6H 3P+N+E plug
Q1N2B2P6M30AHA0	32 A Three Phase Vertical Rack PDU, 230/400V, WYE, 24 IEC C-13 and 6 IEC C-19 receptacles, IEC 60309-6H 3P+N+E plug
Q1N1B3H0A24AFA0	16 A Single Phase Vertical Rack PDU, 230V, 18 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309-6H 2P+E plug
Q1N1B3H0A30AHA0	16 A Single Phase Vertical Rack PDU, 230V, 24 IEC C-13 and 6 IEC C-19 receptacles, IEC 60309-6H 2P+E plug
Q1N2B3J2M30AHA0	32 A Single Phase Vertical Rack PDU, 230V, 24 IEC C-13 and 6 IEC C-19 locking receptacles, IEC 60309-6H 2P+E plug

SmartZone™ Network Enabled M Series Rack PDUs (NA)	
P1N1B1C0A10AKA0	20 A Single Phase Horizontal Rack PDU, 120V 10 NEMA 5-20R receptacles, NEMA 5-20P plug
P1N1B1M2M10AKA0	30 A Single Phase Horizontal Rack PDU, 120V, 10 NEMA 5-20R receptacles, NEMA L5-30P plug
P1N1B1L2N08ATA0	30 A Single Phase Horizontal Rack PDU, 208V, 6 IEC C-13 and 2 IEC C-19 locking receptacles, NEMA L6-30P plug
Q1N1B1C0A24AKA0	20 A Single Phase Vertical Rack PDU, 120V 24 NEMA 5-20 in-line receptacles, NEMA 5-20P twist lock plug
Q1N1B1D0A24AKA0	20 A Single Phase Vertical Rack PDU, 120V 24 NEMA 5-20 in-line receptacles, NEMA L5-20P twist lock plug
Q1N2B1M2M24AKA0	30 A Single Phase Vertical Rack PDU, 120V 24 NEMA 5-20 receptacles, NEMA L5-30P twist lock plug
Q1N2B1N3N30AHA0	30 A Three Phase Vertical Rack PDU, 208 V, Delta, 24 IEC C-13 and 6 IEC C-19 receptacles, NEMA L15-30P twist lock plug
Q1N2B2W6N30APA0	60 A Three Phase Vertical Rack PDU, 208V, Delta, 18 IEC C-13, 12 IEC C-19 receptacles, IEC 60309-9H 3P+E plug
Q1N2B2W6N30AHA0	60 A Three Phase Vertical Rack PDU, 208V, Delta, 24 IEC C-13, 6 IEC C-19 receptacles, IEC 60309-9H 3P+E plug
Q1N2B1J0A30AHA0	20 A Three Phase Vertical Rack PDU, 208V, WYE 24 IEC C-13 and 6 IEC C-19 receptacles, NEMA L21-20P twist lock plug
Q1N2B1P3N30AHA0	30 A Three Phase Vertical Rack PDU, 208V, WYE, 24 IEC C-13 and 6 IEC C-19, NEMA L21-30P twist lock plug
Q1N2B4E3N30AEA0	30 A Three Phase Vertical Rack PDU, 120/208V, WYE, 18 IEC C-13, 6 IEC C-19 receptacles and 6 NEMA 5-20R, NEMA L21-30P twist lock plug
Q1N1B1E0A30AHA0	20 A Single Phase Vertical Rack PDU, 208V, 24 IEC C-13 and 6 IEC C-19 receptacles, NEMA 6-20P twist lock plug
Q1N1B1F0A30AHA0	20 A Single Phase, Vertical Rack PDU, 208V, 24 IEC C-13 and 6 IEC C-19 receptacles, NEMA L6-20P twist lock plug
Q1N2B1L2N30AHA0	30 A Single Phase, Horizontal Rack PDU, 208V, 6 IEC C-13 and 2 IEC C-19 locking receptacles, NEMA L6-30P plug
Q1N2B2T6N30AHA0	50 A Three Phase, Vertical Rack PDU, 208V, 24 IEC C-13 and 6 IEC C-19 receptacles, NEMA CS-8365c plug
Q1N2B2C3N30AHA0	60 A Single Phase, Vertical Rack PDU, 208V, 24 IEC C-13 and 6 IEC C-19 receptacles, IEC 60309 - 6H 2P+E plug

(Optional) SmartZone™ Sensors

ZEAIR-02	Airflow Sensor
ZETHL-15	Humidity Sensor
ZEDIFFPRESS-01, 02, 03, 05	Differential Pressure Transducer
ZETHL-14	Temperature Sensor
ZEWS-03-03	Water Rope Sensor

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

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Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
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cs-aus@panduit.com
Phone: 61.3.9794.9020

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