

# 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

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

## key features and benefits

|  |  |
|--|--|
| <b>Aggregate power monitoring</b>      | 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  |
| <b>Remote power monitoring</b>         | Allows users to remotely access, configure, or manage units, minimizing costly downtime and travel times to service equipment  |
| <b>Low profile breakers</b>            | Low profile circuit breakers reduce the PDU depth preventing obstruction within the back of the cabinet  |
| <b>Environmental monitoring</b>        | 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 |
| <b>Alarm thresholds</b>                | Enables users to define critical power or environmental thresholds that, if reached, will prompt alarm notifications for resolution to ensure operational resilience   |
| <b>LCD digital display</b>             | 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   |
| <b>Integrated locking receptacle</b>   | 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)  |
| <b>Customizable configurations</b>     | 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  |
| <b>SmartZone™ Software integration</b> | 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

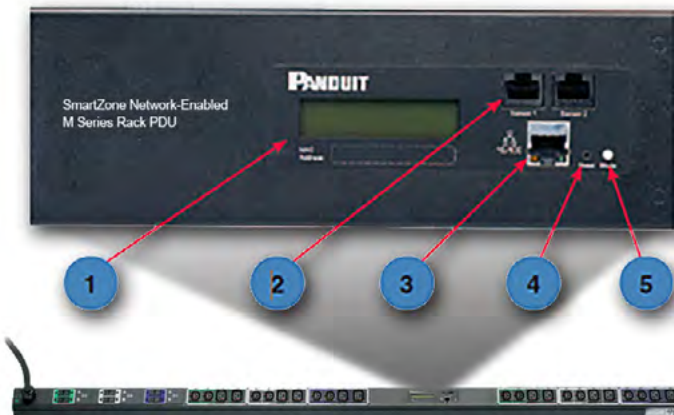
## (for Aggregate Power Monitoring)

### test data

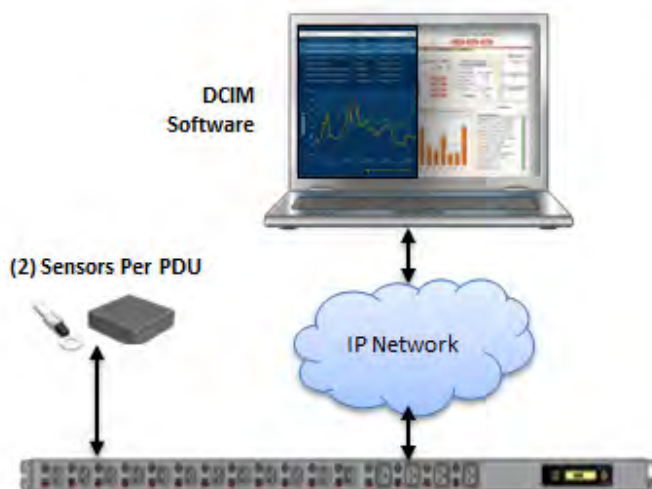
| Parameter             | Value   |
|-----------------------|---|
| Mounting              | Tool-less button style  |
| Upgradability         | Firmware upgradeable  |
| Network Connection    | RJ45 socket   |
| Connectivity          | 10/100 MB Ethernet  |
| Supported Protocols   | HTTP, HTTPS, SNMP, 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  |
|---|---|
| <b>SmartZone™ Network-Enabled M Series Rack PDUs (Global)</b> |   |
| <b>Q1N1B3H0A30AXA0</b>  | 16 A Single Phase Vertical Rack PDU, 230V 30 IEC C-13 receptacles, IEC 60309-6H 2P+E plug                           |
| <b>Q1N2B2Q0A30AHA0</b>  | 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  |
| <b>Q1N2B2P6M30AHA0</b>  | 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 |
| <b>Q1N1B3H0A24AFA0</b>  | 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   |
| <b>Q1N1B3H0A30AHA0</b>  | 16 A Single Phase Vertical Rack PDU, 230V, 24 IEC C-13 and 6 IEC C-19 receptacles, IEC 60309-6H 2P+E plug           |
| <b>Q1N2B3J2M30AHA0</b>  | 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   |

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

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

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