# C4W48RA-DQBD2FD3

Server Technology's PRO4X Switched PDUs run on our state-of-the-art Xerus network interface platform and provide remote access to power, PDU status, input and branch current monitoring, and outlet on/off control. The PDU features RamLock, a self-locking mechanism to prevent accidental cord disconnects, and our award-winning HDOT Cx outlets that can be deployed as either a C13 or C19. Switched PDUs are secured with strong configurable password, active directory, 256-bit AES encryption, SSH, SSL and HTTPS support. SNMP traps provide automated alerts on power and environmental conditions from Legrand's plug-and-play environmental monitoring sensors like temperature, humidity, water, dry contact closure, airflow, air pressure differential, and more.

## Key Features

**HDOT Cx Outlets**
Cx is the future-ready UL tested hybrid of a C13 and C19 outlet accommodating both C14 and C20 plugs.

**Network Monitoring**
Gain access to valuable data through connections including HTTP(S), SSH, Telnet, SNMP, (S)FTP, SMTP, Syslog, LDAP(S), RS-232 serial, and more.

**Multi-Color LCD**
An easy-to-read LCD provides a local indication of power usage, alerts, and alarms.

**Power Quality Measurements**
Monitor and alert on the power being fed to the PDU for harmonics, voltage dips and swells, crest factor, and more at the outlet or load.

**Waveform Capture**
Capture voltage and current waveforms automatically or upon demand.

**Environmental Monitoring**
Support up to 12 daisy chained DX2-series SmartSensors, each with the ability to send SNMP-based alerts and email notifications.

**Branch Circuit Protection**
This PDU meets the UL and IEC 62368-1 requirement for branch circuit protection through UL 489 rated magnetic-hydraulic circuit breakers or UL 248 fuses.

**Alternating-Phase Outlets**
Evenly distributes multiple phases of power to each outlet for simplified load balancing, reduced cord lengths, and better airflow.

**Flexible Mounting**
Includes standard button mounts along with provisions for custom mounting brackets.

**45 Degree Angled Infeed**
The angled infeed improves accessibility, provides infeed strain relief, and its bend radius is suitable with 60A rated cords.

**Multi-Unit Linking & Cascading**
Daisy chain up to 16 PDUs from a primary PDU using a USB or Ethernet connection through a single IP address.

**Hot Swappable Controller**
The Controller is the PDU's center of intelligence and houses computing, display, and connectivity ports.

**RGB LED Outlet Indicators**
RGB LEDs identify an outlet's on/off state, if it's above/below a certain power threshold, or if it's in suspect of a power measurement irregularity.

**RamLock Locking Outlets**
A mechanical locking mechanism built to secure the broadest range of C14 and C20 plugs in place.

**Per-Inlet Power Sensing**
PIPS® (Per Inlet Power Sensing) Monitors Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Power Factor, & Energy per inlet.

**Outlet Control**
On Switched PDUs, cycle power to individual outlets or groups of outlets to reboot servers, or power off unused receptacles.

**High Temperature Rating**
This product has been tested and approved for safe and reliable operation in 60 °C data center environments.

**Color-Coded Options**
Select from six colors to designate PDU circuits in the data center — black, white, red, green, blue, and yellow.

## Inputs

| | |
|---|---|
| Input Voltage (V): | 208 |
| Frequency | 50/60 Hz |
| Input Plug: | 208V Delta 60A IEC 60309 3P+G 9Hr |
| Input Current (A): | 60 |
| Input Current Rated (A): | 48 |
| Input Power Capacity (kW): | 17.3 |

## Outputs

| Connector | Rating |
|---|---|
| (24) x IEC 60320/C13 | North American Rating: ≤ 12A @208V L-L (15A Peak) |
| (24) x Cx | North American Rating: ≤ 16A @208V L-L (20A Peak) |

The Cx outlet has superior cable retention. Moderate force is required when plugging in a C14 or C20 connector to fully seat the plug and to ensure proper installation. An incorrectly installed plug will be loose and will not provide a reliable connection.

Outlet #1 opposite the power input

## PDU Configuration Details

**Examples:**

C4W36RA-0ABE2FE2/**00 00** - PDU with C20 inlet, black paint, and overlays

C4W36RA-YCBE2EE3/**30 B1** - PDU with standard 3 m input cord, black paint, blue markings

| **Input Cord Length or Other** | | |
|---|---|---|
| C20 Inlet, Input Terminal Block | 00 | |
| 1m / 3.3ft | 10 | |
| 1.5m / 4.9ft | 15 | |
| 2m / 6.6ft | 20 | |
| 2.5m / 8.2ft | 25 | |
| 3m / 9.8ft (standard) | 30 | |
| 3.5m / 11.5ft | 35 | |
| 4m / 13.1ft | 40 | |
| 4.5m / 14.8ft | 45 | |
| 5m / 16.4ft* | 50 | |
| **PDU Paint Color / Overlay Colors** | | |
| Black Paint, Black Labels | | 00 |
| Black Paint, Red Labels | | R1 |
| Black Paint, Blue Labels | | B1 |
| Black Paint, Green Labels | | G1 |
| Black Paint, Orange Labels | | N1 |
| Black Paint, Yellow Labels | | Y1 |
| Black Paint, White Labels | | W1 |

*Note: * Not available in North America*

## Branch Circuit Protection

UL 489, CSA C22.2 No. 5 & IEC/EN 60947-2 Compliant 2-pole, 20A trip circuit breakers, six (6) branch, rating: ≤ 16A, 10 kAIC Interrupt Rating

## Physical

Dimensions: 80.0in tall x 2.2in wide x 2.5in deep [2032mm x 56mm x 64mm]

## Environmental

**Operating Environment:** 32°F to 140°F / 0°C to 60°C | 5% RH to 90% RH non-condensing | < 3000M / 10,000 ft. elevation
**Storage Environment:** -22°F to 176°F / -30°C to 80°C | 20% RH to 90% RH non-condensing | < 15,000M / 50,000 ft. elevation
Quiescent / Unloaded Power Draw: < 7W for all configurations

## Communications & Security

Dual Ethernet, Two (2) 10/100/1000 Mbps (Cat5e/6 connector), Optional Wi-Fi (802.11 a/b/g/n) One (1) Sensor port (RJ45), One (1) PDU Link (RJ45),

Two (2) USB-A (5 V / 500 mA), and One (1) USB-B
Web-browser GUI and command-line interface (CLI): HTTP/HTTPS, TLSv1.2, SSHv2, Telnet, SNMPv2c and v3 (GET, SET, Traps), IPv4 and IPv6, LDAPv3/LDAPS, TACACS+, RADIUS, FTP/SFTP

## Certifications

**North American**:
Safety (Listed & Certified, cTUVus mark)
  UL 62368-1
  CSA C22.2 No. 62368-1
EMC
  FCC Part 15 Subpart B Sections 15.107 & 15.109, Class A
  CAN ICES-003, Class A

## Measurement Accuracy

### Input Measurement Accuracy:

LCD Current = ± 0.2% at 0.01 amp resolution
GUI Current = ± 0.2% at 0.01 amp resolution
Voltage = ± 0.2% at 0.1 volt resolution
Neutral Voltage = ± 1% at 0.1 volt resolution
Neutral Current = ± 0.5% at 1% FS resolution (FS is PDU ampere rating)
Active Power = ± 0.5% at 1 watt resolution
Apparent Power = ± 0.5% at 1 volt-amp resolution
Reactive Power = ± 1% at 1 volt-amp reactive resolution
Power Factor = ± 1% at 0.01 resolution
Crest Factor = ± 1% at 0.1 resolution
Active Energy = ± 0.5% at 0.1 kilowatt-hour resolution
Apparent Energy = ± 0.5% at 0.1 kilo volt ampere hour resolution
Reactive Energy = ± 1.0% at 0.1 kilo volt ampere reactive hour resolution
Voltage Total Harmonic Distortion = 1.0%
Current Total Harmonic Distortion = 5.0%

### Output Measurement Accuracy:

LCD Current = ± 0.2% at 0.01 amp resolution
GUI Current = ± 0.2% at 0.01 amp resolution
Voltage = ± 0.2% at 0.1 volt resolution
Active Power = ± 0.5% at 1 watt resolution
Apparent Power = ± 0.5% at 1 volt-amp resolution
Reactive Power = ± 1% at 1 volt-amp reactive resolution
Power Factor = ± 1% at 0.01 resolution
Crest Factor = ± 1% at 0.1 resolution
Active Energy = ± 0.5% at 0.1 kilowatt-hour resolution
Reactive Energy = ± 1.0% at 0.1 kilo volt ampere reactive hour resolution
Voltage Total Harmonic Distortion = 1.0%
Current Total Harmonic Distortion = 5.0%

### Branch Measurement Accuracy:

Current = ± 1% at 0.01 amp resolution

## Optional Accessories

PDU Linking/Cascading uses standard RJ45 cables.
Button Mounts (KIT-0020) are included with vertical PDUs for tool-less mounting (see diagram).
Horizontal PDUs will include a set of RU mounting brackets. See the Mounting Bracket Guide for further suggestions.

### USB Dongle Accessories*:

WI-FI Access (DX2-WIFI-USB)
KVM and Serial Access (DSER-PWR-USB-G4, DKX3-PWR-USB-G4, DSER-CLI-USB-G4)

### Legrand SmartSensors*:

Temperature (DX2-T1)
Temperature and Humidity (DX2-T1H1, DX2-T2H2, DX2-T3H1)
Temperature and Differential Air Pressure (DX2-T1DP1)
Airflow (DX2-AF1)
Dust/Particles (DX2-PS)
Water/Leak Floor (DX2-WSF-35-KIT, DX2-WSF-70-KIT, DX2-WSF-100-KIT)
Water/Leak Rope (DX2-WSC-35-KIT, DX2-WSC-70-KIT, DX2-WSC-100-KIT)
Dry Contact (DX2-D2)
Dry Contact/Contact Closure (DX2-D2C6)
Powered Dry Contact (DX2-PD2)
Powered Dry Contact/Contact Closure (DX2-PD2C5)
Contact Closure (DX2-CC2)
Proximity/Motion and Tamper (DX2-PIR)
Vibration (DX2-VBR)
Sensor Hub (DX2-ENVHUB4)

### Legrand SmartLock*:

Intelligent Door Sensor (DX2-DH2C2)
Supports multiple low- and high-frequency door handles.

### Legrand Asset Management*:

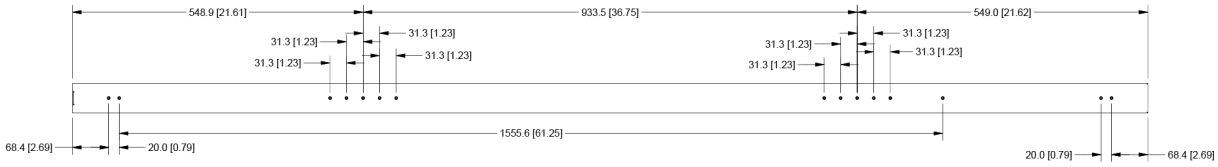
Asset Management Sensor Strip for 42U rack (AMS2-42)
Asset Management Sensor Strip for 45U rack (AMS2-45)
Asset Management Sensor Strip for 48U rack (AMS2-48)
Asset Management Sensor Strip for 54U rack (AMS2-54)

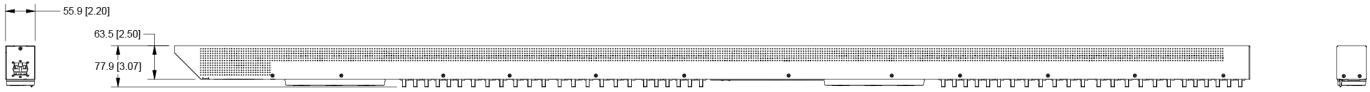
*Connecting certain accessories may require a firmware update. Accessories are sold separately.

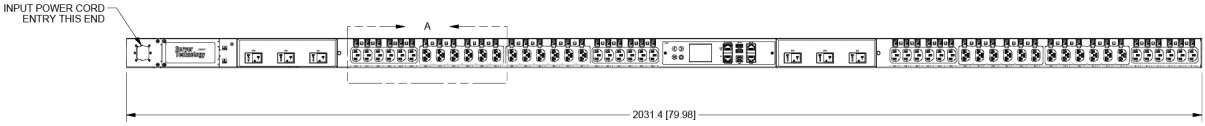
# Drawings

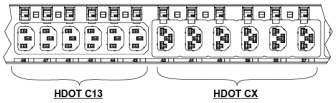
**NOTES:**

1. DIMENSIONS ARE IN MILLIMETERS AND [ ] BRACKETS ARE IN INCHES.
2. DIMENSIONS ARE NOMINAL. INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE.

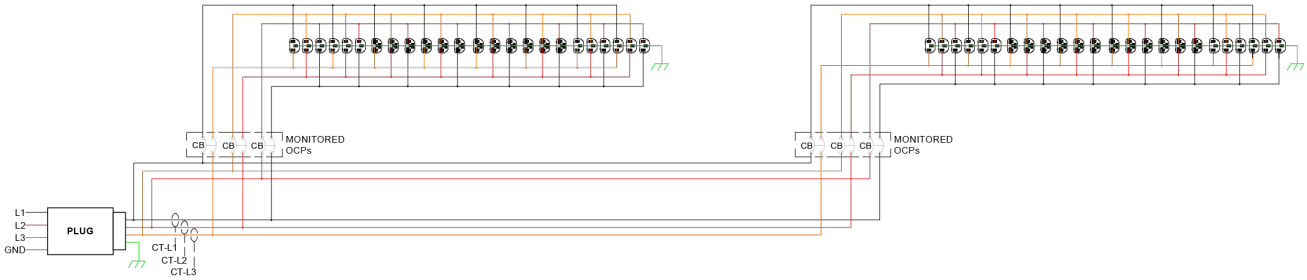



DETAIL A



## Additional Information

**Warranty:** Server Technology offers a standard 2-year limited parts & labor warranty. Extended support is available at the time of purchase. See the Support Options on the website, or contact your local Server Technology representative for more information.

**Patents:** Information on Server Technology patents is available on the website at: www.servertech.com/products/patents

"Global" models are typically for use in countries outside of North America. Contact your Server Technology representative for more information about which models are appropriate for your application.

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