Pathway® | **PRO**
Connectivity Solutions

PATHPORT RACK-MOUNT
DMX/RDM ETHERNET GATEWAY

Models shown: 1. PWPP RM P8 XLR5F FRONT IEC
2. PWPP RM P4 [xxxx] REAR DCPOE

BUY AMERICAN ACT
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
3-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE
Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

PRO — **Pathway Pro** marked products are geared for advanced entertainment lighting system applications and are available only to authorized buyers.

SixEye CONNECTED — Pathport Rack-mount models support **SixEye** cloud-based remote management

BAA

OVERVIEW

The Pathport® series of DMX/RDM Ethernet Gateways are the heart of DMX distribution.

Connect DMX512 control devices and send data over an Ethernet network to DMX512-capable end devices such as intelligent lighting fixtures, LEDs, dimmers, and more. Each port can be configured as an Input or Output as needed.

Advanced features include extensive protocol support, slot-by-slot patching using multiple sources, cross-fading on priority change, and signal loss behavior. Multiple connector options are available, such as 5-Pin XLR, terminal block, and RJ45 etherCON.

Status LEDs for each port provide instant confirmation of DMX activity and direction. The LCD display and encoder knob allow for front panel configuration and reporting of the most commonly used features, such as IP address and subnet mask, port direction, and protocol selection. Different Ethernet protocols may be merged together and prioritized.

FEATURES

- Convert DMX512 to Ethernet protocol for distribution
- Convert Ethernet protocol to DMX512 for end devices
- Four or Eight DMX512 ports, individually configurable
- 10/100 Mbps Ethernet network port
- Front panel interface supports configuration of IP settings, port direction, basic patching, and more
- DMX output configured as whole universes or custom slot-by-slot patch
- Map up to eight control sources to each output slot, with merge and/or priority options user-configurable for each source
- Acts as E1.20 RDM controller, when used with free Pathscape configuration software or ANSI E1.33 RDMnet compliant controllers

- User-configurable DMX output speed and signal loss behavior
- Supports the following DMX-over-Ethernet sending and receiving protocols:
  - Pathway ssACN (Secure sACN)
  - E1.31 streaming ACN (sACN)
  - Art-Net
  - Pathport Protocol
  - ShowNet
- Silent, fan-less operation
- Rack-mount ears included
- Wide-range line voltage power input (P8), or PoE/DC-powered (P4 and P8)
- Contact closure input configurable per port to Pause RDM or DMX Force Hold
- Also available in DIN-mount (PWPP DIN) and Wall-mount (PWPP WM) form factors

ORDERING INFORMATION

PWPP									EXAMPLE: PWPP RM P8 XLR5F REAR IEC
Series		**Form Factor**		**Port Quantity**		**Port Type**		**Port Location**	**Power Connector**
PWPP	Pathway Pathport DMX/RDM Ethernet Gateway	RM	Rack-mount	P4[1,2]	4 DMX Ports	XLR5F	XLR 5-Pin Female	FRONT — Ports on Front Panel	IEC — 100-240 50/60 Hz VAC- lead included
				P8	8 DMX Ports	TERM[3]	Compression-Fit Terminal	REAR — Ports on Rear Panel	DCPOE — Class 2 PoE or 24-48 VDC[7]
						RJ45EC[4,5]	RJ45 etherCON	FRTRR — Ports on Front AND Rear Panel [XLRTERM] XLR ports on Front and Terminal on Rear	
						XLRTERM[2,6]	XLR 5-Pin Female & Compression-Fit Terminal		

Notes

1. P4 available with REAR ports and DCPOE only.
2. P4 not available with XLRTERM.
3. TERM ports available on REAR only; not available with FRTRR.
4. RJ45EC not available with FRTRR.
5. Models with RJ45EC are custom-built and are not returnable.
6. XLRTERM only available on P8, with FRTRR.
7. Optional purchase PWPWR WW BARL 24W 24VDC.

SPECIFICATIONS

Electrical	**Input Ratings**	**PWPP RM P8 XX IEC** 100-240VAC, 50/60Hz wide-range power input 0.08A max power consumption **PWPP RM XX DCPOE** PoE Class 2 device 24-48VDC auxiliary power input 8W maximum power consumption
	Isolation & Fault Protection	3000V isolation between DMX ports 250V fault protection on DMX ports
	Regulatory Compliance	**PWPP RM IEC** ETL, CE **PWPP RM P4** CE

Mechanical	**Dimensions**	**PWPP RM P8** 17" W x 1.7" H x 7.0" D (433mm W x 43mm H x 178mm D) **PWPP RM P4** 8.6" W x 1.7" H x 7.0" D (218mm W x 43mm H x 178mm D)
	Weight	**PWPP RM P8** 5.2 lbs (2.4 kg) [base device, without rack mounting hardware] **PWPP RM P4** 2.3 lbs (1 kg) [base device, without rack mounting hardware]

Environmental	**Operating Temperature**	14°F to 122°F (-10°C to 50°C)
	Relative Humidity	5-95%, non-condensing
	Standard Compliance	RoHS 2011/65/EU + A1 2015/863

General	**Compliance**	ANSI E1.11 DMX512-A R2013 ANSI E1.20 RDM - Remote Device Management ANSI E1.31 sACN - Streaming ACN, Art-Net, Strand ShowNet, Pathway ssACN ANSI E1.33 RDMnet - RDM over IP California Title 1.81.26, Security of Connected Devices FAR-889 Section 889(a)(1)(A) and Section(a)(1)(B) **PWPP RM XX DCPOE** IEEE 802.3af Power-over-Ethernet

PART NUMBER CROSS-REFERENCE

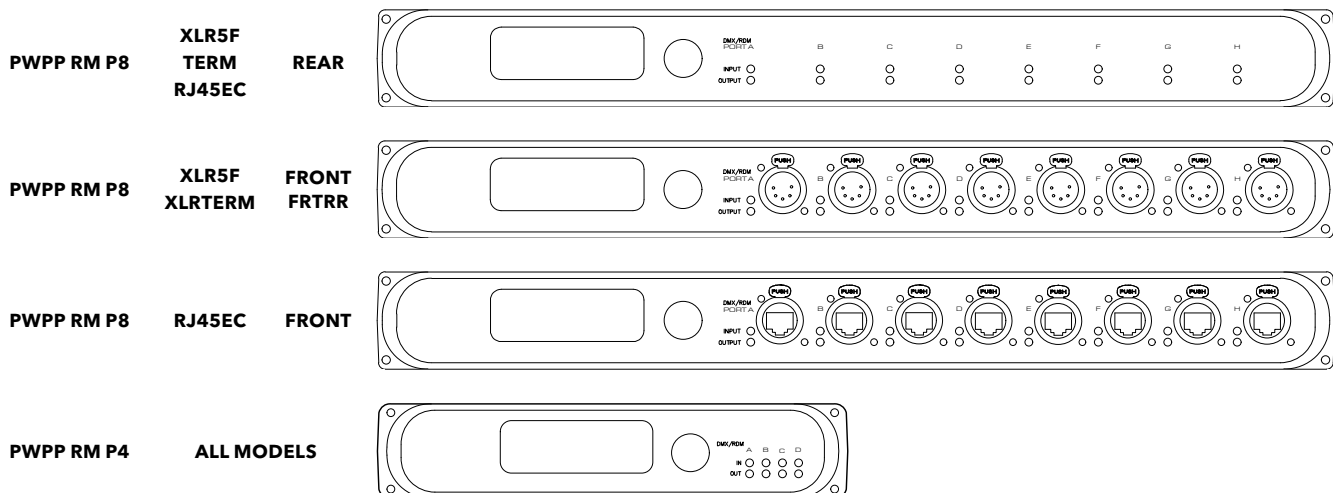| PREVIOUS	NEW	
Part Number	**Catalog Number**	**Description**
6321 (QUATTRO)	PWPP RM P4 XLR5F REAR DCPOE	Pathport, Rack-mount, 4-Ports, XLR 5-Pin Female, Rear Panel Connectors
6322 (QUATTRO)	PWPP RM P4 TERM REAR DCPOE	Pathport, Rack-mount, 4-Ports, Compression Fit Terminal, Rear Panel Connectors
6326 (QUATTRO)	PWPP RM P4 RJ45EC REAR DCPOE	Pathport, Rack-mount, 4-Ports, RJ45 EtherCON, Rear Panel Connectors
6421 (OCTO)	PWPP RM P8 XLR5F REAR IEC	Pathport, Rack-mount, 8-Ports, XLR 5-Pin Female, Rear Panel Connectors
6422 (OCTO)	PWPP RM P8 TERM REAR IEC	Pathport, Rack-mount, 8-Ports, Compression Fit Terminal, Rear Panel Connectors
6423 (OCTO)	PWPP RM P8 XLR5F FRONT IEC	Pathport, Rack-mount, 8-Ports, XLR 5-Pin Female, Front Panel Connectors
6424 (OCTO)	PWPP RM P8 XLRTERM FRTRR IEC	Pathport, Rack-mount, 8-Ports, Front XLR 5-Pin Female, Rear Terminal, Front and Rear Panel Connectors
6425 (OCTO)	PWPP RM P8 XLR5F FRTRR IEC	Pathport, Rack-mount, 8-Ports, XLR 5-Pin Female, Front and Rear Panel Connectors
6426 (OCTO)	PWPP RM P8 RJ45EC REAR IEC	Pathport, Rack-mount, 8-Ports, RJ45 EtherCON, Rear Panel Connectors
6427 (OCTO)	PWPP RM P8 RJ45EC FRONT IEC	Pathport, Rack-mount, 8-Ports, RJ45 EtherCON, Front Panel Connectors

ADDITIONAL ORDERING INFORMATION

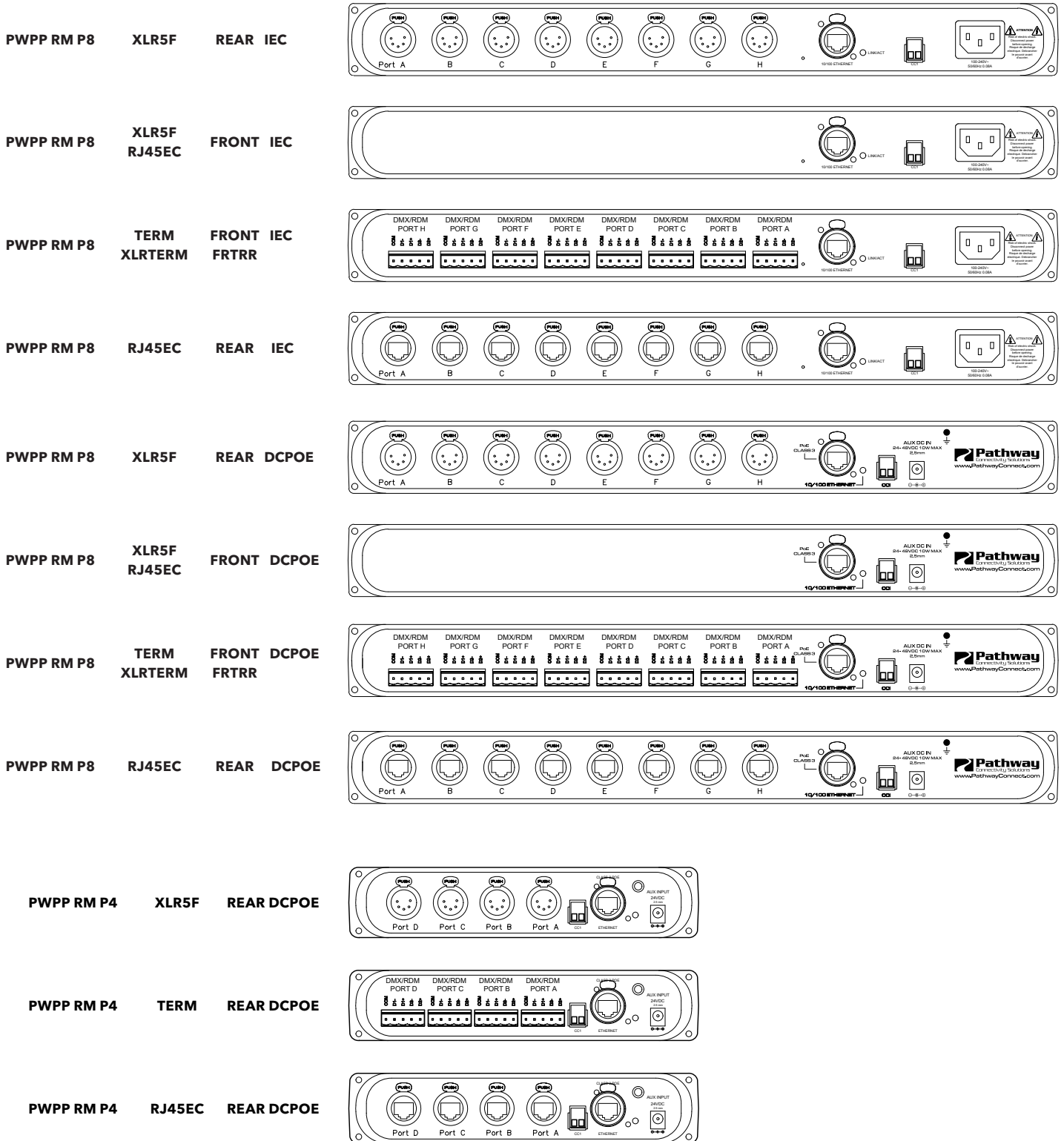| Accessories			
PWCON PH5 IDC3 Q4	Connector, 5-Pin Phoenix, 3-Pin Insulation Displacement Contact Connector, (Qty 4)	PWPWR WW BARL 24W 24VDC	Power Supply, Wallwart, Barrel, 24 Watts, 24 Volts DC (for PWPP RM XX DCPOE)
PWACC WMLG	Pathway Accessory, Large Rack-mount to Wall-mount kit	PWACC XLRMKIT	Pathway Accessory Front XLR Connector Kit, Pathport Rackmount 4-port, XLR5M Input (x4)
PWACC TMLG	Pathway Accessory, Large Rack-mount to Truss-mount kit	PWACC XLRFKIT	Pathway Accessory Front XLR Connector Kit, Pathport Rack-mount 4-port, XLR5F Output (x4)
PWACC TMSM	Pathway Accessory, Small Rack-mount to Truss mount kit	PWACC XLRMFKIT	Pathway Accessory Front XLR Connector Kit, Pathport Rack-mount 4-port, XLR5M (x2), XLR5F (x2)
PWACC WMSM	Pathway Accessory, Small Rack-mount to Wall-mount kit		
PWACC EARS	Pathway Accessory, 19" Replacement Rackmount Ear Kit		

WIRING

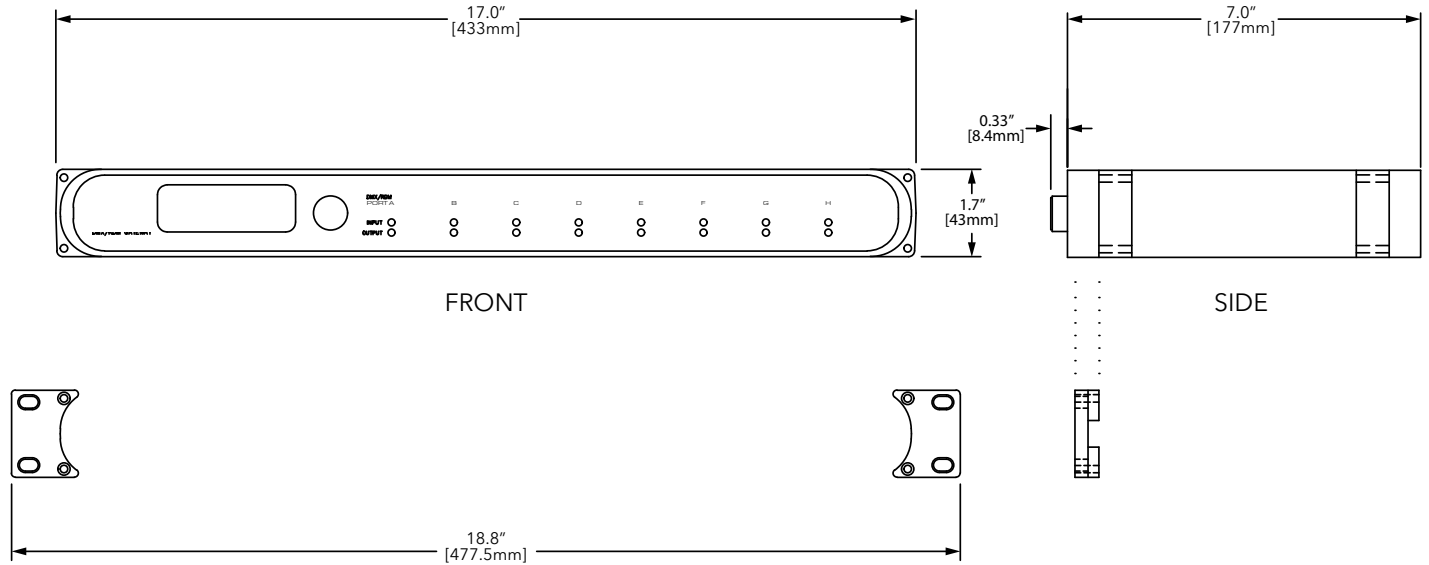| DMX512 / RDM PINOUT		
Purpose	XLR / Terminal Block Pin #	RJ45 PIN # and Wire Color
Shield / Common	1	7 - White / Brown
Data - (complement)	2	2 - Orange
Data + (true)	3	1 - White / Orange
Not Used	4	6 - Green
Not Used	5	3 - White / Green
Not Used - Do Not Connect	N/A	4 - Blue
Not Used - Do Not Connect	N/A	5 - White / Blue
Not Used - Do Not Connect	N/A	8 - Brown

FRONT PANEL

PWPP RM P8	XLR5F TERM RJ45EC	REAR
PWPP RM P8	XLR5F XLRTERM	FRONT FRTRR
PWPP RM P8	RJ45EC	FRONT
PWPP RM P4	ALL MODELS	

REAR PANEL

PWPP RM P8	XLR5F	REAR	IEC

PWPP RM P8	XLR5F RJ45EC	FRONT	IEC

PWPP RM P8	TERM XLRTERM	FRONT FRTRR	IEC

PWPP RM P8	RJ45EC	REAR	IEC

PWPP RM P8	XLR5F	REAR	DCPOE

PWPP RM P8	XLR5F RJ45EC	FRONT	DCPOE

PWPP RM P8	TERM XLRTERM	FRONT FRTRR	DCPOE

PWPP RM P8	RJ45EC	REAR	DCPOE

PWPP RM P4	XLR5F	REAR DCPOE

PWPP RM P4	TERM	REAR DCPOE

PWPP RM P4	RJ45EC	REAR DCPOE

DIMENSIONS

PWPP RM P8

FRONT

SIDE

PWPP RM P4

FRONT

SIDE

1/2 Rack Adapter (included)
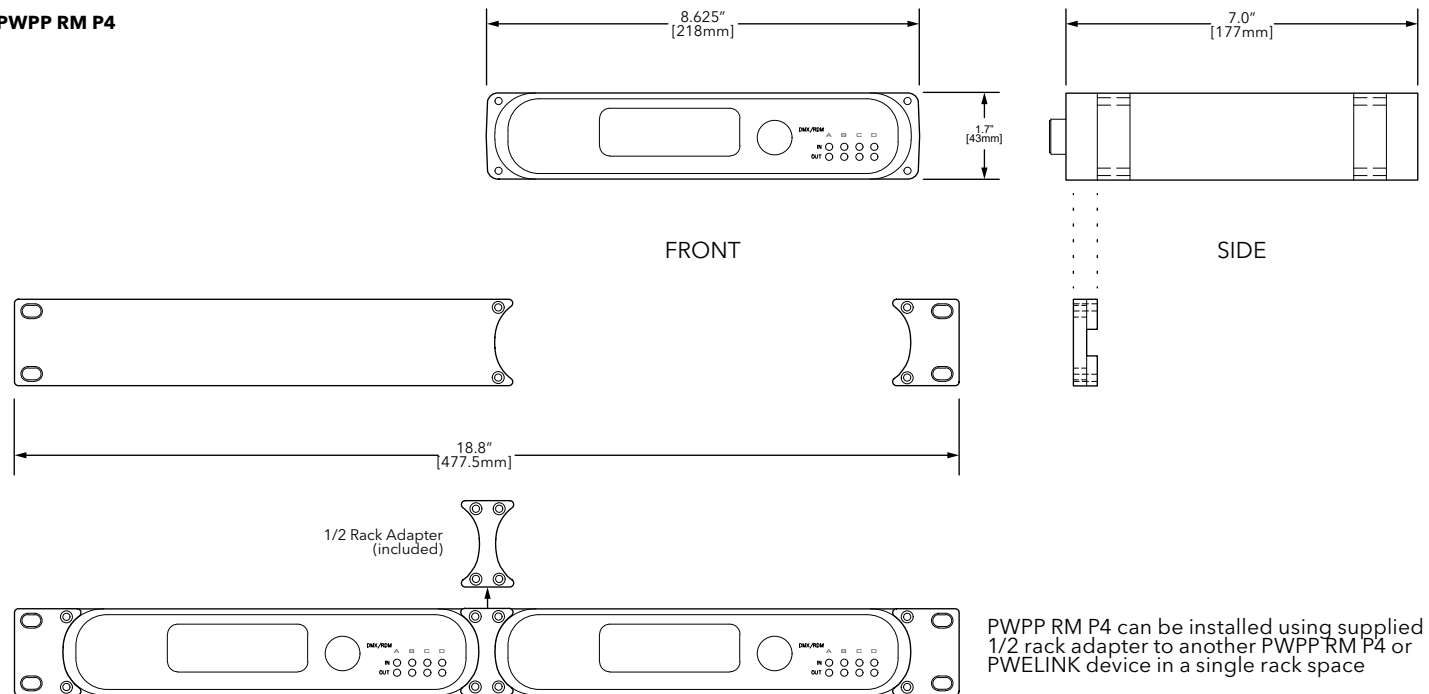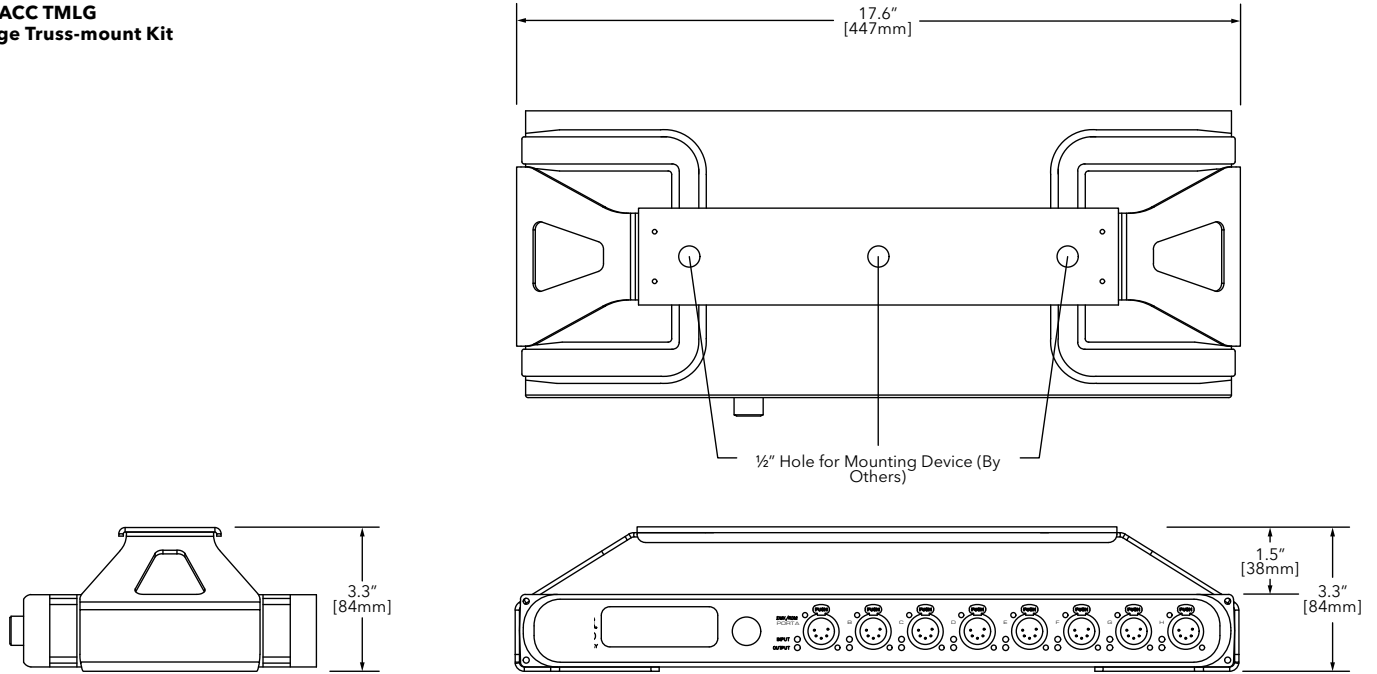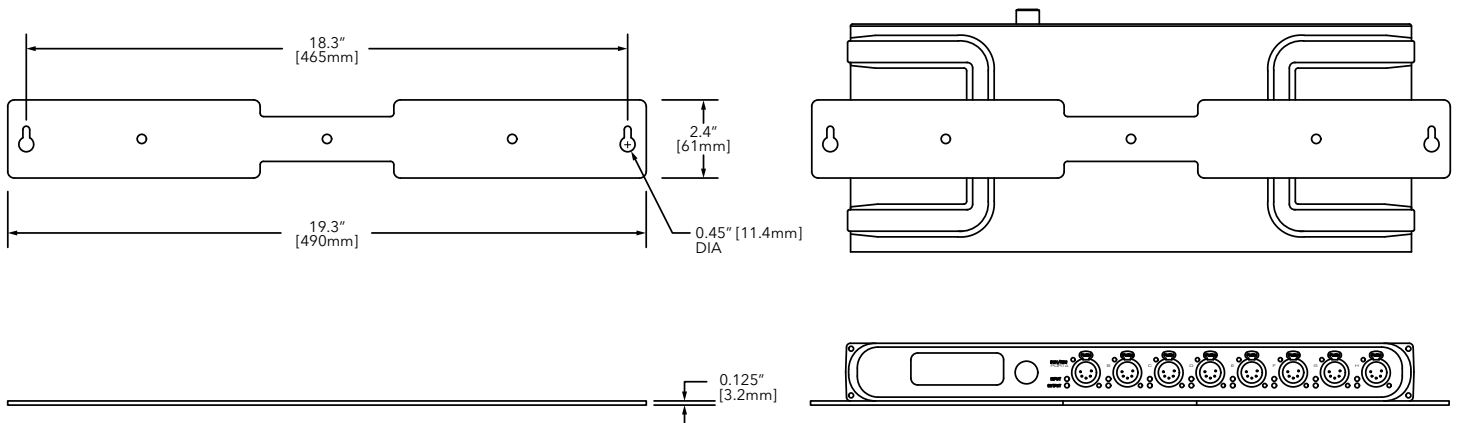
PWPP RM P4 can be installed using supplied 1/2 rack adapter to another PWPP RM P4 or PWELINK device in a single rack space

TRUSS & WALL MOUNT ACCESSORIES

PWACC TMLG
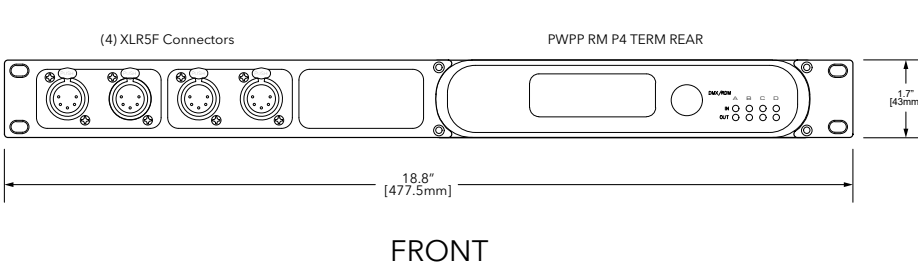**Large Truss-mount Kit**

17.6"
[447mm]

½" Hole for Mounting Device (By Others)

3.3"
[84mm]

1.5"
[38mm]

3.3"
[84mm]

PWACC WMLG
Large Wall-mount Kit

18.3"
[465mm]

2.4"
[61mm]

19.3"
[490mm]

0.45" [11.4mm]
DIA

0.125"
[3.2mm]

CONNECTOR KIT ACCESSORY

PWACC XLRFKIT
Front XLR Connector Kit

(4) XLR5F Connectors

PWPP RM P4 TERM REAR

7.0"
[177mm]

1.7"
[43mm]

18.8"
[477.5mm]

FRONT

SIDE

PWACC XLRFKIT Shown
(4 XLR 5-Pin Female Connectors)

4 XLR 5-Pin Male and 2-Female/2-Male
versions also available.

Factory-installed wiring with
tinned ends
Connect to rear terminal
connectors of PWPP RM P4

APPLICATION RISER

PWVIA RM Ethernet
Switch

PWPP RM P8 XLR5F FRONT IEC
Pathport Gateway
(Front of House)

Ethernet

Ethernet w/ PoE

PWPP RM P4 XLR5F REAR DCPOE
Pathport Gateway
(On Stage)

DMX512

DMX512

Touring Dimmer Rack

PWCOG DT
(Primary Lighting Console)

Intelligent Lights

Intelligent Lights

PWCOG DT
(Backup Lighting Console)

LED Wash Lights