

PureMedia

Matrix Switchers, Input/Output Cards, Extenders/Converters

- 1. PM-256X 256x256 PureMedia™ Matrix Switcher
- 2. PM-180X 180x180 PureMedia™ Matrix Switcher
- 3. PM-128X 128x128 PureMedia™ Matrix Switcher
- 4. PM-80X 80x80 PureMedia™ Matrix Switcher
- 5. PM-64X 64x64 PureMedia™ Matrix Switcher
- 6. PM-48X 48x48 PureMedia™ Matrix Switcher
- 7. PM-32X 32x32 PureMedia™ Matrix Switcher
- 8. PM-16X 16x16 PureMedia™ Matrix Switcher
- 9. PM-8X 8x8 PureMedia™ Matrix Switcher



Input Card Options

HDMI



PM-HIS4-U

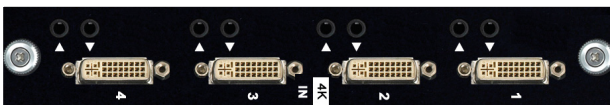
4 HDMI Inputs with Audio Insert/Extract



PM-HIS4-UV

4 HDMI Inputs with Audio Insert/Extract for PM-180X - UltraHD 4K

DVI



PM-DIS4-U

4 DVI Inputs with Audio Insert/Extract - UltraHD 4K



PM-DIS4-UV

4 DVI Inputs with Audio Insert/Extract for PM-180X - UltraHD 4K

HDBaseT



PM-CIS4-U

4 HDBaseT Inputs with Audio Insert/Extract - UltraHD 4K



PM-CIS4-UV

4 HDBaseT Inputs with Audio Insert/Extract for PM-180X - UltraHD 4K

Fiber



PM-FIS4-U

4 1LC Fiber Inputs with Audio Insert/Extract - UltraHD 4K



PM-FIS4-UV

4 1LC Fiber Inputs with Audio Insert/Extract for PM-180X - UltraHD 4K

Input Card Options

SDI



PM-SIS4

4 3G/HD-SDI Inputs with Audio Insert/Extract - Full HD



PM-SIS4-6G

4 6G/HD-SDI Inputs with Audio Insert/Extract - UltraHD 4K



PM-SIS4-6G-V

4 6G/HD-SDI Inputs with Audio Insert/Extract for PM-180X - UltraHD 4K

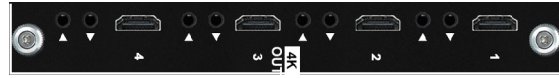
Output Card Options

HDMI



PM-HOS4-U

4 HDMI Outputs with Audio Insert/Extract - Ultra HD 4K



PM-HOS4-UV

4 HDMI Outputs with Audio Insert/Extract for PM-180X - Ultra HD 4K



PM-HOS4S-U

4 HDMI Outputs with Auto-scaling & Seamless Switching - Ultra HD 4K



PM-HOS4S-UV

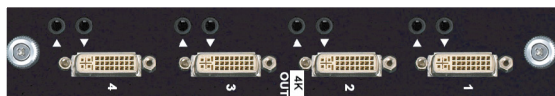
4 HDMI Outputs with Auto-scaling & Seamless Switching for PM-180X - Ultra HD 4K



PM-HOS4S-MV-U

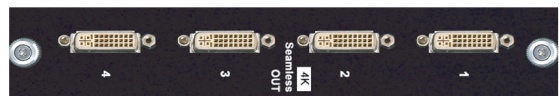
1 Multi-View HDMI Output with Auto-scaling & Seamless Switching - Ultra HD 4K

DVI



PM-DOS4-U

4 DVI Outputs with Audio Insert/Extract - Ultra HD 4K



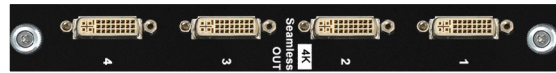
PM-DOS4S-U

4 DVI Outputs with Auto-scaling & Seamless Switching - Ultra HD 4K



PM-DOS4-UV

4 DVI Outputs with Audio Insert/Extract for PM-180X - Ultra HD 4K



PM-DOS4S-UV

4 DVI Outputs with Auto-scaling & Seamless Switching for PM-180X - Ultra HD 4K

Output Card Options

HDBaseT



PM-COS4-U

4 HDBaseT Outputs
with Audio Insert/Extract - Ultra HD 4K



PM-COS4-UV

4 HDBaseT Outputs
with Audio Insert/Extract for PM-180X - Ultra HD 4K

Fiber



PM-FOS4-U

4 1LC Fiber Outputs
with Audio Insert/Extract - Ultra HD 4K



PM-FOS4-UV

4 1LC Fiber& HDMI Outputs
with Audio Insert/Extract for PM-180X - Ultra HD 4K

SDI



PM-SOS4

4 3G/HD-SDI Outputs with Audio Insert - Full HD



PM-SOS4-V

4 3G/HD-SDI Outputs
with Audio Insert for PM-180X - Full HD



PM-SOS4-U

4 3G/HD-SDI Output Board with Ultra HD to Full HD
Downscaling & Audio Insert - Full HD



PM-SOS4-UV

4 3G/HD-SDI Outputs with Ultra HD to Full HD
Downscaling & Audio Insert for PM-180X - Full HD

HDBaseT Extenders

PM-CT101-U

4K HDMI to HDBaseT Transmitter with RS-232



Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	HDBaseT 0,1,2,3+/-	DIMENSIONS (WxDxH)	5.75 x 4.5 x 1.25 in. 144.78 x 114.3 x 31.75 mm
DATA RATE	10.2 Gbps	WEIGHT	0.5 Lbs (0.23 kg)
SUPPORTED DISTANCE	330 ft (100m)		
POWER	DC +12V, 10 Watts Max		

PM-CT102-U

4K HDMI/VGA to HDBaseT Transmitter with RS-232



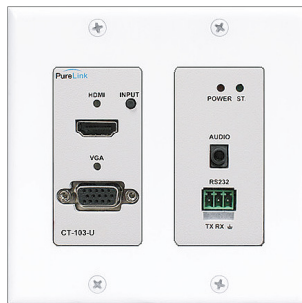
Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS) VGA 3.5mm stereo audio	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	HDBaseT 0,1,2,3+/-	DIMENSIONS (WxDxH)	5.75 x 4.5 x 1.25 in. 144.78 x 114.3 x 31.75 mm
DATA RATE	10.2 Gbps	WEIGHT	1.0 Lbs (0.46 kg)
SUPPORTED DISTANCE	330 ft (100m)		
POWER	DC +12V, 10 Watts Max		

HDBaseT Extenders

PM-CT103-U

4K HDMI/VGA to HDBaseT Transmitter with RS-232 - Wall Plate



Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS) VGA 3.5mm stereo audio	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	HDBaseT 0,1,2,3+/-	DIMENSIONS (WxDxH)	3.6 x 4.24 x 2.24 in. 91.44 x 107.95 x 57.15mm
DATA RATE	10.2 Gbps	WEIGHT	0.5 Lbs (0.23 kg)
SUPPORTED DISTANCE	330 ft (100m)		
POWER	DC +12V, 10 Watts Max		

PM-CT104-U

4K HDMI to HDBaseT Transmitter with RS-232



Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS)	SUPPORTED RESOLUTIONS	Up to Ultra HD 4K 3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	HDBaseT 0,1,2,3+/-	DIMENSIONS (WxDxH)	3.94 x 2.4 x 0.6 in. 100 x 60 x 14 mm
DATA RATE	10.2 Gbps	WEIGHT	0.6 Lbs (0.27 kg)
SUPPORTED DISTANCE	330 ft (100m)		
POWER	DC +12V, 10 Watts Max		

HDBaseT Extenders

PM-CR101-U

4K HDBaseT to HDMI Receiver with RS-232



Technical Specifications:

INPUT TYPE/S	HDBaseT 0,1,2,3+/-	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits)
OUTPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio	DIMENSIONS (WxDxH)	5.75 x 4.5 x 1.25 in. 144.78 x 114.3 x 31.75 mm
DATA RATE	10.2 Gbps	WEIGHT	0.5 Lbs (0.23 kg)
SUPPORTED DISTANCE	330 ft (100m)		
POWER	DC +12V, 10 Watts Max		

PM-CR102-U

4K HDBaseT to HDMI Receiver with Auto-Scaling



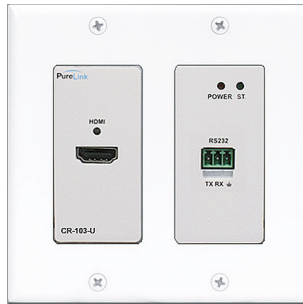
Technical Specifications:

INPUT TYPE/S	HDBaseT 0,1,2,3+/-	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits)
OUTPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio	DIMENSIONS (WxDxH)	7.75 x 5.96 x 1.7 in. 192.4 x 151.4 x 42 mm
DATA RATE	10.2 Gbps	WEIGHT	1.59 Lbs (0.68 kg)
SUPPORTED DISTANCE	330 ft (100m)		
POWER	DC +12V, 10 Watts Max		

HDBaseT Extenders

PM-CR103-U

4K HDBaseT to HDMI Receiver with RS-232 - Wall Plate

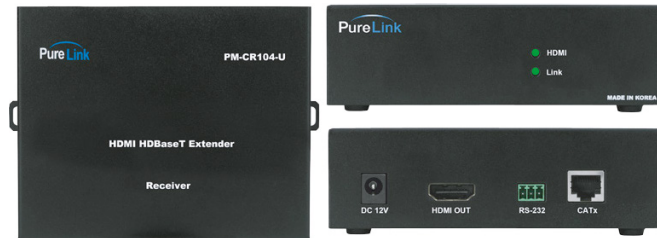


Technical Specifications:

INPUT TYPE/S	HDBaseT 0,1,2,3+/-	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits)
OUTPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio		3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
DATA RATE	10.2 Gbps	DIMENSIONS (WxDxH)	3.6 x 4.24 x 2.24 in. 91.44 x 107.95 x 57.15mm
SUPPORTED DISTANCE	330 ft (100m)	WEIGHT	0.5 Lbs (0.23 kg)
POWER	DC +12V, 10 Watts Max		

PM-CR104-U

4K HDBaseT to HDMI Receiver with RS-232



Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS)	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits)
OUTPUT TYPE/S	HDBaseT 0,1,2,3+/-		3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
DATA RATE	10.2 Gbps	DIMENSIONS (WxDxH)	3.94 x 2.4 x 0.6 in. 100 x 60 x 14 mm
SUPPORTED DISTANCE	330 ft (100m)	WEIGHT	0.6 Lbs (0.27 kg)
POWER	DC +12V, 10 Watts Max		

Fiber Extenders

PM-FT101-U

4K HDMI to 1 LC Fiber Transmitter with RS-232



Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	1LC Fiber	DIMENSIONS (WxDxH)	6.3 x 4.4 x 1.7 in. 160 x 112 x 42 mm
DATA RATE	10.2 Gbps	WEIGHT	1.43 Lbs (0.65 kg)
SUPPORTED DISTANCE	Single Mode: 32,808ft (10km) Multi Mode: 1,650ft (500m)		
POWER	DC +12V, 4 Watts Max		

PM-FT102-U

4K HDMI/VGA to 1 LC Fiber Transmitter with RS-232



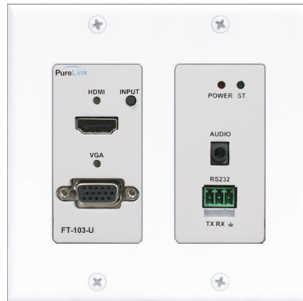
Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS) VGA 3.5mm stereo audio	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	1LC Fiber	DIMENSIONS (WxDxH)	5.75 x 4.5 x 1.75 in. 144.78 x 114.3 x 45 mm
DATA RATE	10.2 Gbps	WEIGHT	1.0 Lbs (0.46 kg)
SUPPORTED DISTANCE	Single Mode: 32,808ft (10km) Multi Mode: 1,650ft (500m)		
POWER	DC +12V, 4 Watts Max		

Fiber Extenders

PM-FT103-U

4K HDM/VGA to 1 LC Fiber Transmitter with RS-232 - Wall Plate



Technical Specifications:

INPUT TYPE/S	DVI / HDMI (TMDS) VGA 3.5mm stereo audio	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	1 LC Fiber	DIMENSIONS (WxDxH)	3.6 x 4.24 x 2.24 in. 91.44 x 107.95 x 57.15mm
DATA RATE	10.2 Gbps	WEIGHT	1.0 Lbs (0.46 kg)
SUPPORTED DISTANCE	Single Mode: 32,808ft (10km) Multi Mode: 1,650ft (500m)		
POWER	DC +12V, 10 Watts Max		

PM-FR101-U

4K 1 LC Fiber to HDMI Receiver with RS-232



Technical Specifications:

INPUT TYPE/S	1 LC Fiber	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 3840x2160 @50/60Hz (YCbCr 4:2:0 8 bits)
OUTPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio	DIMENSIONS (WxDxH)	5.75 x 4.5 x 1.25 in. 144.78 x 114.3 x 31.75 mm
DATA RATE	10.2 Gbps	WEIGHT	0.5 Lbs (0.23 kg)
SUPPORTED DISTANCE	Single Mode: 32,808ft (10km) Multi Mode: 1,650ft (500m)		
POWER	DC +12V, 4Watts Max		

Fiber Extenders

PM-FR102-U

4K 1 LC Fiber to HDMI Receiver with Auto-Scaling & Seamless Switching

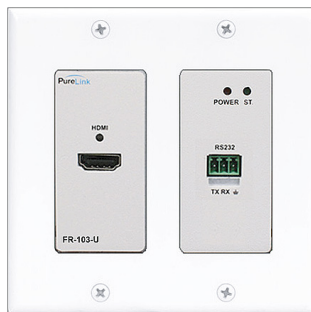


Technical Specifications:

INPUT TYPE/S	1 LC Fiber	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits)
OUTPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio	DIMENSIONS (WxDxH)	7.5 x 6.0 x 1.65 in. 190 x 150 x 42 mm
DATA RATE	10.2 Gbps	WEIGHT	0.5 Lbs (0.23 kg)
SUPPORTED DISTANCE	Single Mode: 32,808ft (10km) Multi Mode: 1,650ft (500m)		
POWER	DC +12V, 4 Watts Max		

PM-FR103-U

4K 1 LC Fiber to HDMI Receiver with RS-232 - Wall Plate



Technical Specifications:

INPUT TYPE/S	1 LC Fiber	SUPPORTED RESOLUTIONS	3840x2160 @24/25/30Hz (RGB/YCCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits)
OUTPUT TYPE/S	DVI / HDMI (TMDS) 3.5mm stereo audio	DIMENSIONS (WxDxH)	3.6 x 4.24 x 2.25 in. 91.44 x 107.7x 57.15 mm
DATA RATE	10.2 Gbps	WEIGHT	0.5 Lbs (0.23 kg)
SUPPORTED DISTANCE	Single Mode: 32,808ft (10km) Multi Mode: 1,650ft (500m)		
POWER	DC +12V, 10 Watts Max		

Features	Model Number I/O Capacity	
	PM-8X	PM-16X
	8x8	16x16
3G/HD-SDI, C ATx (HDBaseT), DVI, Fiber, HDMI, VGA, Component Video interchangeable switching	•	•
Ultra HD (4K2K) support	•	•
Full HD support (1080p, 1920 x 1200 @ 60Hz)	•	•
HDMI v1.4b support	•	•
Dual Link DVI support (2560 x 1600 @ 60Hz)	•	•
HDCP compliant	•	•
EDID (Emulation and Selectable Presets)	•	•
5-pin Phoenix Balanced/Unbalanced Audio Matrix Routing	Optional	Optional
POE (all outputs simultaneously) for PM Tx and Rx Modular Extenders	•	•
Redundant Power	•	•
Advanced RS-232	•	•
Inputs directly compatible with PM Extender Transmitters	•	•
Outputs directly compatible with PM Extender Receivers	•	•
Selectable PCM 2 Channel Audio Extraction	•	•
Selectable Audio Insertion/Extraction	•	•
LCD Touchscreen Display with Security Lockout	•	•
Input/Output Signal Analysis (Resolution, EDID, HDCP)	•	•
Bi-Directional RS-232/LAN Control	•	•
Independent Input Monitoring Loop with HDMI output	•	•
Built-In Test Pattern Generator	•	•
Auto-Scaling with Don't Blink™ Switching Technology	•	•
GenLock for 3G/HD-SDI	•	•
Field-Updateable Firmware (PC to USB)	•	•
Router-Based Firmware Updating of Extenders	•	•
Frame Only	•	•

- Beyond standard allotment, custom per channel audio matrix routing option available
- May require additional PSU add-on
- Router and receiver-based scaling via options PM-DOS4S, PM-HOS4S, PM-SOS4S, PM-CR102 (-RF), and PM-FR102 (-RF) support up to HDMI v1.3
- Router and receiver-based scaling via options PM-DOS4S-U, PM-HOS4S-U, PM-SOS4S-U, PM-CR102-U, and PM-FR102-U support up to HDMI v1.4

Model Number I/O Capacity						
PM-32X	PM-48X	PM-64X	PM-80X	PM-128X	PM-180X	PM-256X
32x32	48x48	64x64	80x80	128x128	180x180	256x256
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Optional	48x48	64x64	16x16 std. ¹	16x16 std. ¹	16x16 std. ¹	16x16 std. ¹
.	.	.	Up to 128 I/Os	Up to 128 I/Os	Up to 128 I/Os	Up to 128 I/Os
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