

DPH 101 4K PLUS

DISPLAYPORT TO HDMI ACTIVE ADAPTER



The DPH 101 4K PLUS is an active, one-way adapter that connects DisplayPort sources to HDMI displays. It supports both DisplayPort and Dual-Mode DisplayPort source devices. The DPH 101 4K PLUS provides end-to-end 4K @ 60 Hz capability and is ideal for integrating DisplayPort source devices into new or existing HDMI systems.

- ▶ Provides connectivity between DisplayPort sources and HDMI displays and peripherals
- ▶ Provides active conversion of DisplayPort signals to HDMI
- ▶ Equalizes incoming DisplayPort signals up to 12 feet (3 meters) to compensate for signal loss due to low quality cables or marginal sources
- ▶ Reconditions outgoing HDMI signals to ensure signal integrity up to 12 feet (3 meters) to the connected device
- ▶ Supports computer and video resolutions up to 4K/60 @ 4:4:4 with data rates up to 18 Gbps
- ▶ Complies with VESA Interoperability Guidelines
- ▶ HDCP compliant
- ▶ Passes EDID information from HDMI display to the source
- ▶ Supports 8-channel LPCM and HBR audio
- ▶ Supports Dual Mode DisplayPort, Mini-DisplayPort, and Thunderbolt sources with appropriate cables or adapters
- ▶ LED indicator for signal presence and power
- ▶ Compact 1" (2.5 cm) high, 2.2" (5.6 cm) wide enclosure for discreet placement and mounting in space-constrained environments



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INTERFACING, SWITCHING AND CONTROL

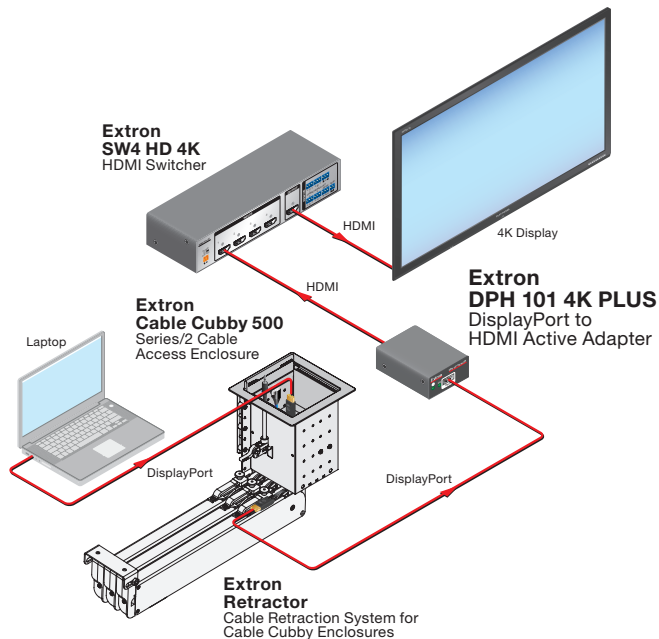
DESCRIPTION

The Extron **DPH 101 4K PLUS** is a compact one input, one output active DisplayPort to HDMI adapter. It accepts signals up to 4K/60 @ 4:4:4. Incoming DisplayPort signals are equalized up to 12 feet (3 meters) at the input to compensate for signal loss. The DPH 101 4K PLUS reconditions the outgoing signal, ensuring signal integrity up to an additional 12 feet (3 meters) from the output to the connected HDMI device. The active, one-way adapter can share a power supply with another Extron product, or use an optional 12V 1A power supply for standalone applications. The DPH 101 4K PLUS is ideal for AV applications that require the integration of DisplayPort-equipped sources into HDMI system designs.

KEY FEATURES

- ▶ Provides connectivity between DisplayPort sources and HDMI displays and peripherals
- ▶ Provides active conversion of DisplayPort signals to HDMI
- ▶ Equalizes incoming DisplayPort signals up to 12 feet (3 meters) to compensate for signal loss due to low quality cables or marginal sources
- ▶ Reconditions outgoing HDMI signals to ensure signal integrity up to 12 feet (3 meters) to the connected device
- ▶ Supports computer and video resolutions up to 4K/60 @ 4:4:4 with data rates up to 18 Gbps
- ▶ Complies with VESA Interoperability Guidelines

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

Max 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz 4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	8 bit
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:0	12 bit

Frame rate ¹	24, 25, 30, 50, or 60 fps
Chroma sampling ¹	4:4:4, 4:2:2, or 4:2:0
Color bit depth ¹	8, 10, or 12 bits per color
Signal type	DisplayPort 1.2, HDMI 2.0, HDCP 1.4, HDCP 2.2
Max. video data rate	18 Gbps (6 Gbps per color)
NOTE: ¹ Subject to the maximum data rate limit. Use our calculator at www.extron.com/4Kdata to determine video parameters supported by this data rate.	

VIDEO

Maximum data rate	18 Gbps (6 Gbps per color)
Maximum pixel clock	600 Mhz
Resolution range	Up to 1920 x 1200, 1080p @60 Hz 12-bit color 4K (4096 x 2160) @60 Hz 4:4:4, UHD (3840 x 2160) @60 Hz 4:4:4

VIDEO INPUT

Number/signal type	1 DisplayPort
Input cable length	Up to 12' (3.7 m)

VIDEO OUTPUT

Number/signal type	1 HDMI
Output cable length	Up to 12' (3.7 m)

GENERAL

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.0 A, 12 watts
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NOTE: The external power supply is not included.
NOTE: Power can be shared with a connected Extron HDMI switcher or similar device (see the DPH 101 4K PLUS Setup Guide for details).

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
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Enclosure type	Metal
Enclosure dimensions	1.0" H x 2.2" W x 3.0" D (2.5 cm H x 5.6 cm W x 7.6 cm D)

Product weight	0.1 lbs (0.05 kg)	
Model	Version Description	Part number
DPH 101 4K PLUS	DisplayPort F-HDMI F, Active Adapter	60-1686-01

Optional Accessories

PS 1210 C	12V, 1A, Captive Screw Connector	70-775-01
Retractor Series/2 DisplayPort	DisplayPort Male to Male	70-1065-07
Retractor Series/2 XL DisplayPort	DisplayPort Male to Male	70-1066-07
MDP-DP/6	Mini DP to DisplayPort, 6' (1.8m)	26-675-06
DisplayPort Ultra Series	Ultra Flexible DisplayPort Cables	26-691-xx
HDMI Ultra Series	Ultra Flexible High Speed HDMI Cables	26-663-xx

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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