PARTILINK

2019 PRODUCT CATALOG

INPUT & OUTPUT
4K 60
HDMI 2.0
HDCP 2.2

AV PRODUCT DESIGNER & MANUFACTURER

NEWS & HIGHLIGHTS

PARTILINK

VISION AND MISSION STATEMENT

Based in Taipei Taiwan, PARTILINK Inc senior engineers with over twenty years expertise in Pro-AV, design and manufacture innovative world-class, pro audio-visual, technologies.
We bring real life vision through wide screen and video wall for AV, Digital Signage, Broadcast, Control Management, Medical and Education markets.

PARTILINK Incorporated was founded in 2014. Over the years we have gathered relevant excellence recognized by our clients in bringing a unique audiovisual experience.
At PARTILINK we specialize in quality, High-End performance and cost-effective equipment with efficient support to resellers, end-users and integrators. Exceeding customer's expectations in order to maximize reliable partnership for the long-term.

CONTENTS

HDMI 2.0 / VGA / DP MULTIVIEW VIDEO PROCESSOR

VP - QV41

For simultaneous display of three HDMI 2.0/1.4 + one DisplayPort or one VGA sources on one screen with output resolutions up to 4K UHD @60Hz 3840 × 2160 4:4:4

OVERVIEW

The Partilink VP-QV41 Multiview Video Processor is a user-friendly HDMI, VGA and DisplayPort video scaler and multiviewer designed to display up to four video sources on one 4K@60Hz 4:4:4 screen simultaneously. It handles any input resolution up to 4K@60Hz to output maximum 4K@60Hz or downscale the resolution.

FEATURES

- Fast switching between input channels and combined multiple images on single monitor
- Handles HDMI® signals with Deep Color and HDCP 1.4 / 2.2 also handle VGA, and DisplayPort sources
- Input resolution up to 4K@60Hz, 4:4:4 color sampling
- Output resolution up to 4K@60Hz, 4:4:4 color sampling
- Scaling up to 4K@60Hz, 4:4:4 color sampling and able to downscale as well
- PiP, PoP and multi-view layout configurations
- 14 different screen layouts by 6 preset screen layouts and extra 8 customized screen layouts
- Rotation (R90°and L90°) when input resolution up to 1080p and flip output in full screen mode
- Stereo audio output
- Control by front panel button, IR remote control, RS232/Telnet and Web UI
- Firmware upgrade via USB port
- DP loop through output

APPLICATION

- Hospitality in lobby, hospital, clinic
- Conference room presentation
- Advertising in shopping mall, supermarket, restaurants
- Broadcast in airport, bus or train station, classroom
- Rental and staging
- Entertainment in restaurant, bar, multimedia room, boardrooms, home cinema
- Integrating with DVR, IP camera as a surveillance system
- Monitoring in bank and stock market

DP Cable
HDMI Cable
VGA Cable
Audio Cable
Ethernet Cable
RS232 Cable

OUTPUT — DP | HDMI

INPUT — HDMI1 | HDMI2 | HDMI3 | HDMI4 | DP | VGA | AUDIO | AUDIO OUT | ETHERNET | RS232 | USB | 12V DC | POWER ON/OFF

PC | Media Box | Blu-ray Disk | Set Top Box | Laptop | PC | Speaker | Ethernet Switch | Control Center

flip | Rotate L90° | Rotate R90°

SPECIFICATION

MODEL NO.		VP-QV41
HARDWARE	System Structure	pure hardware
	Operating System	no CPU and operating system
INPUT/ OUTPUT	Inputs	4 x HDMI 2.0 with locking, 1 x DisplayPort 1.2, 1 x VGA + 1 x 3.5mm Audio jack
	Output	1 x HDMI 2.0 with locking, 1 x DisplayPort 1.2
	Audio Output	Terminal Block 3 Pole, Stereo
IMAGE PROCESSING	Display Mode	full screen, Quad view, PiP, PoP
	Input Resolution	up to 3840 x 2160@60Hz, 4:4:4 color sampling
	Max Output Resolution	up to 3840 x 2160@60Hz, 4:4:4 color sampling
	Output Resolutions	3840x2160 - 60Hz, 50Hz, 30Hz 1920x1080 - 60Hz 1280x720 - 60Hz 720x480 - 60Hz
	Output Color Depth	8 bpc (24 bit/px)
	Scaler	scaling up to 4K@60Hz, 4:4:4 color sampling and downscaling as well
	Video Bandwidth	up to 18 Gbps
	HDMI Compliance	HDMI 1.4 and HDMI 2.0
	HDCP Compliance	HDCP 1.4 and 2.2
CONTROL METHODS	Front Panel Buttons	4 x select HDMI 1,2,3,4 input and/or audio, 1x DisplayPort, 1 x VGA, 6 x display layout, 1 x Input Swap, 1 x Panel lock, 1x Standby
	IR	1 x IR remote control
	RS232/ Telnet	1 x D9 Female Connector / Compatible with third party control system
	Ethernet Port	1 x RJ45
	Web UI	browser / touch screen
STABILITY	Safety	hardware structure, no risk of virus interference
	Running Time	no auto-reboot during 365 days/year, 7days/7, 24h/24
FIRMWARE	Possible Upgrade	1 x USB 2.0
LED INDICATOR	Input	blue backlight
	Output	blue backlight
	Panel Lock	blue backlight
	Standby On	red backlight
	Standby Off	green backlight
POWER	Internal Power Supply	DC 12V/2A, locking barrel connector
	Power Consumption	15W
	Power Adaptor	universal power adapter
ENVIRONMENT	Operating Temperature	0 °C~45°C
	Operating Humidity	20~90% RH
	Storage Temperature	-20 °C~60 °C
PHYSICAL	Dimensions	440.4 x 230 x 45 mm (L x W x H, standard 1U)
	Fixing Components	rear bracket, footpad and screws
	Weight	2.72 KG

HDMI 2.0
MULTIVIEW VIDEO PROCESSOR
VP - QV41H

For simultaneous display of four HDMI 2.0/1.4 sources on one screen with output resolutions up to 4K UHD - 4K @60Hz 3840 × 2160 4:4:4

OVERVIEW

The Partilink VP-QV41H Multiview Video Processor is a user-friendly HDMI 2.0 video scaler and multiviewer designed to view max. 4 video sources on one 4K@60Hz 4:4:4 display simultaneously. It handles any input resolution up to 4K@60Hz to output maximum 4k@60Hz or downscale the resolution, adjusts its aspect ratio to match the native resoltuion of your screen to dispaly.
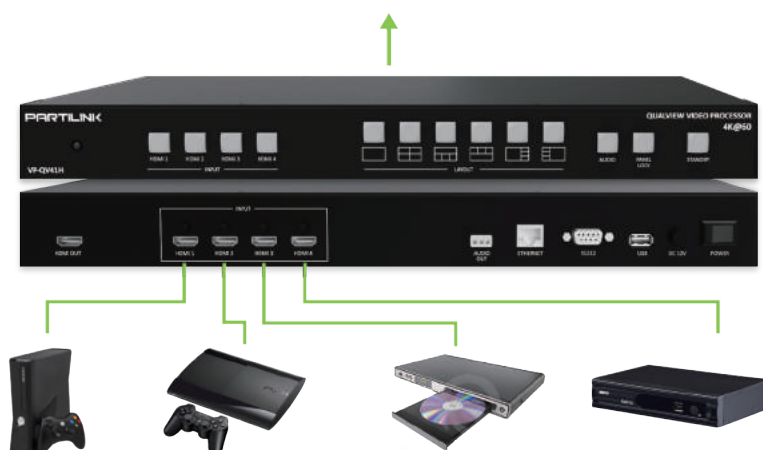
FEATURES

- Fast switching between input channels and combined multiple source images on single monitor
- Handles HDMI® signals with Deep Color and HDCP 1.4 / 2.2 sources
- Input resolution up to 4K@60Hz, 4:4:4 color sampling
- Output resolution up to 4K@60Hz, 4:4:4 color sampling
- Upscaling up to 4K@60Hz, 4:4:4 color sampling and able to downscale as well
- PiP, PoP and multi-view layout configurations
- 14 different screen layouts by 6 preset screen layouts and extra 8 customized screen layouts
- Rotation (R90° and L90°) when input resolution up to 1080p and flip output in full screen layout
- Stereo audio output
- Control by front panel button, IR remote control, RS232/Telnet and Web UI control
- Firmware upgrade via USB port

APPLICATION

- Hospitality in lobby, hospital, clinic
- Conference room presentation
- Advertising in shopping mall, supermarket, restaurants
- Broadcast in airport, bus or train station, classroom
- Rental and staging
- Entertainment in restaurant, bar, multimedia room, boardrooms, home cinema
- Integrating with DVR, IP camera as a surveillance system
- Monitoring in bank and stock market

HDMI Cable
Audio Cable
Ethernet Cable
RS232 Cable

INPUT

HDMI OUT   HDMI 1   HDMI 2   HDMI 3   HDMI 4   AUDIO OUT   ETHERNET   RS232   USB   DC 12V   POWER

PC   Media Box   Blu-ray Disk   Set Top Box   Speaker   Ethernet Switch   Control Center

flip   Rotate L90°   Rotate R90°

SPECIFICATION

MODEL NO.		VP-QV41H	
HARDWARE	System Structure	pure hardware	
	Operating System	no CPU and operating system	
INPUT/ OUTPUT	Inputs	4 x HDMI 2.0 with locking	
	Output	1 x HDMI 2.0 with locking	
	Audio Output	terminal block 3 pole, stereo	
IMAGE PROCESSING	Display Mode	full screen, quad view, PiP, PoP	
	Input Resolution	up to 3840 x 2160@60Hz, 4:4:4 color sampling	
	Max Output Resolution	up to 3840 x 2160@60Hz, 4:4:4 color sampling	
	Output Resolutions	3840x2160 - 60Hz, 50Hz, 30Hz 1280x720 - 60Hz	1920x1080 - 60Hz 720x480 - 60Hz
	Output Color Depth	8 bpc (24 bit/px)	
	Scaler	scaling up to 4K@60Hz, 4:4:4 color sampling and downscaling as well	
	Video Bandwidth	up to 18 Gbps	
	HDMI Compliance	HDMI 1.4 and HDMI 2.0	
	HDCP Compliance	HDCP 1.4 and 2.2	
CONTROL METHODS	Front Panel Buttons	4 x select HDMI 1,2,3,4 input and/or audio, 6 x display layout, 1 x Audio Selection, 1 x Panel lock, 1x Standby	
	IR	1 x IR remote control	
	RS232/ Telnet	1 x D9 female connector / compatible with third party control system	
	Ethernet Port	1 x RJ45	
	Web UI	browser / touch screen	
STABILITY	Safety	hardware structure, no risk of virus interference	
	Running Time	no auto-reboot during 365 days/year, 7days/7, 24h/24	
FIRMWARE	Possible Upgrade	1 x USB 2.0	
LED INDICATOR	Input	blue backlight	
	Output	blue backlight	
	Panel Lock	blue backlight	
	Standby On	red backlight	
	Standby Off	green backlight	
POWER	Internal Power Supply	DC 12V/2A, locking barrel connector	
	Power Consumption	15W	
	Power Adaptor	universal power adapter	
ENVIRONMENT	Operating Temperature	0 °C~45°C	
	Operating Humidity	20~90% RH	
	Storage Temperature	-20 °C~60 °C	
PHYSICAL	Dimensions	440.4 x 230 x 45 mm (L x W x H, standard 1U)	
	Fixing Components	Rear bracket, footpad and screws	
	Weight	3.0 KG	

HDMI 2.0
QUADVIEW KVM PROCESSOR

VP - KM41

For simultaneous display and control of four computers via HDMI 1.4/2.0 with only one mouse and one keyboard on a single output screen with resolutions up to 4K UHD @60Hz 3840 × 2160 4:4:4 Cascadable: Display and control up to 16 HDMI KVM inputs via one mouse and one Keyboard

OVERVIEW

The Partilink VP-KM41 Quadview KVM processor is designed to display up to four USB HDMI computers in a higher resolution up to 4K @60Hz 4:4:4 color sampling on a single screen in full view and quad view and the KVM control of every sources with one set of mouse/keyboard improves the operational efficiency of real-time monitoring.
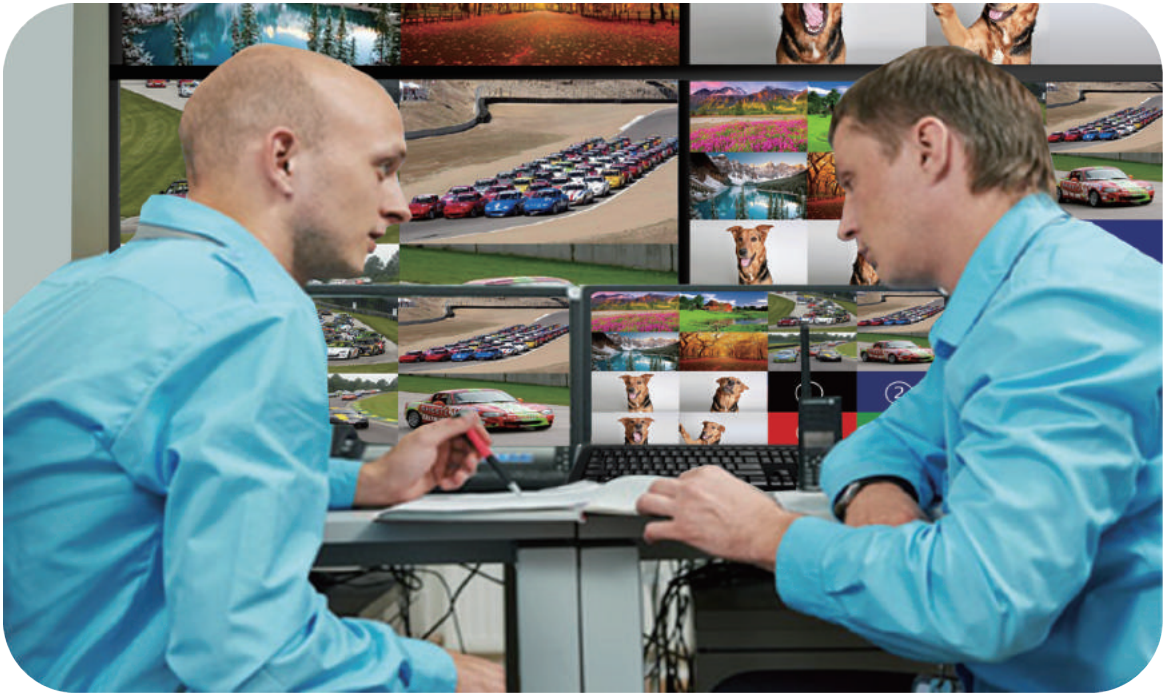
FEATURES

- Fast switching between the input channels in full screen mode or the quadview mode
- Seamlessly move your mouse from monitor to monitor across computers in quad view mode
- 4K@60Hz full screen and quad view layout configuration
- Input resolution up to 4K@60Hz, 4:4:4 color sampling
- Output resolution up to 4K@60Hz, 4:4:4 color sampling
- Scaling up to 4K@60Hz, 4:4:4 color sampling and downscaling as well
- Deep Color and HDCP 1.4 / 2.2
- Cascading up to 5 units to create max. 16 host devices controlled by 1 set of keyboard and mouse.
- Stereo audio output
- Control by USB keyboard/ mouse console, front panel button, IR remote control, RS232/Telnet and Web UI
- Firmware upgrade via USB port

APPLICATION

- Hospitality in lobby, hospital, clinic
- Conference room presentation
- Advertising in shopping mall, supermarket, restaurants
- Broadcast in airport, bus or train station, classroom
- Rental and staging
- Entertainment in restaurant, bar, multimedia room, boardrooms, home cinema
- Integrating with DVR, IP camera as a surveillance system
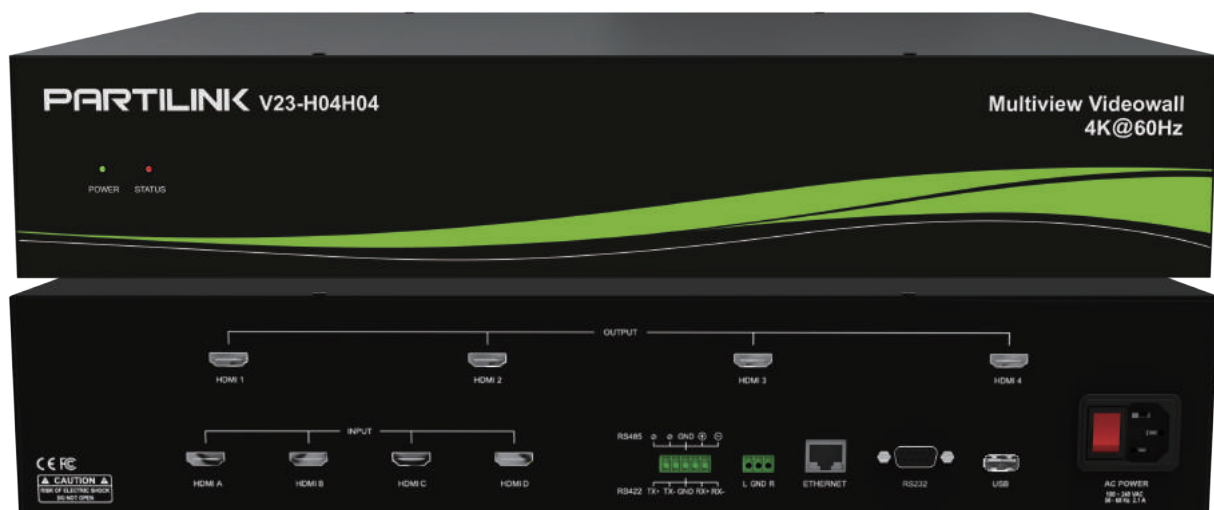- Monitoring in bank and stock market

Primary Display

HDMI Cable
USB Cable

VP-KM41

DVR   DVR   DVR   DVR

SPECIFICATION

MODEL NO.		VP-KM41		
HARDWARE	System Structure	pure hardware		
	Operating System	no CPU and operating system		
INPUT/ OUTPUT	Inputs	4 x HDMI 2.0 with locking		
	Output	1 x HDMI 2.0 with locking		
	Audio Output	terminal block 3 pole, stereo		
IMAGE PROCESSING	Display Mode	full screen, quad view, PIP, PoP		
	Input Resolution	up to 3840 x 2160@60Hz, 4:4:4 color sampling		
	Max Output Resolution	up to 3840 x 2160@60Hz, 4:4:4 color sampling		
	Output Resolutions	3840x2160 - 60Hz, 50Hz, 30Hz 1920x1080 - 60Hz 1280x720 - 60Hz 720x480 - 60Hz		
	Output Color Depth	8 bpc (24 bit/px)		
	Scaler	scaling up to 4K@60Hz, 4:4:4 color sampling and downscaling as well		
	Video Bandwidth	up to 18 Gbps		
	HDMI Compliance	HDMI 1.4 and HDMI 2.0		
	HDCP Compliance	HDCP 1.4 and 2.2		
KVM	Host Devices	4 x USB type B for host devices		
	KVM	2 x USB type A for keyboard and mouse console		
CONTROL METHODS	Front Panel Buttons	4 x select HDMI 1,2,3,4 input and/or audio, 2 x display layout, 1 x Panel lock, 1x Standby		
	IR	1 x IR remote control		
	RS232/ Telnet	1 x D9 Female Connector / Compatible with third party control system		
	Ethernet Port	1 x RJ45		
	Web UI	browser / touch screen		
STABILITY	Safety	hardware structure, no risk of virus interference		
	Running Time	no auto-reboot during 365 days/year, 7days/7, 24h/24		
FIRMWARE	Possible Upgrade	1 x USB 2.0		
LED INDICATOR	Input	blue backlight	Standby On	red backlight
	Output	blue backlight	Standby Off	green backlight
	Panel Lock	blue backlight		
POWER	Internal Power Supply	DC 12V/2A, locking barrel connector		
	Power Consumption	15W		
	Power Adaptor	universal power adapter		
ENVIRONMENT	Operating Temperature	0 °C~45°C		
	Operating Humidity	20~90% RH		
	Storage Temperature	-20 °C~60 °C		
PHYSICAL	Dimensions	440.4 x 230 x 45 mm (L x W x H, standard 1U)		
	Fixing Components	Rear bracket, footpad and screws		
	Weight	2.8 KG		

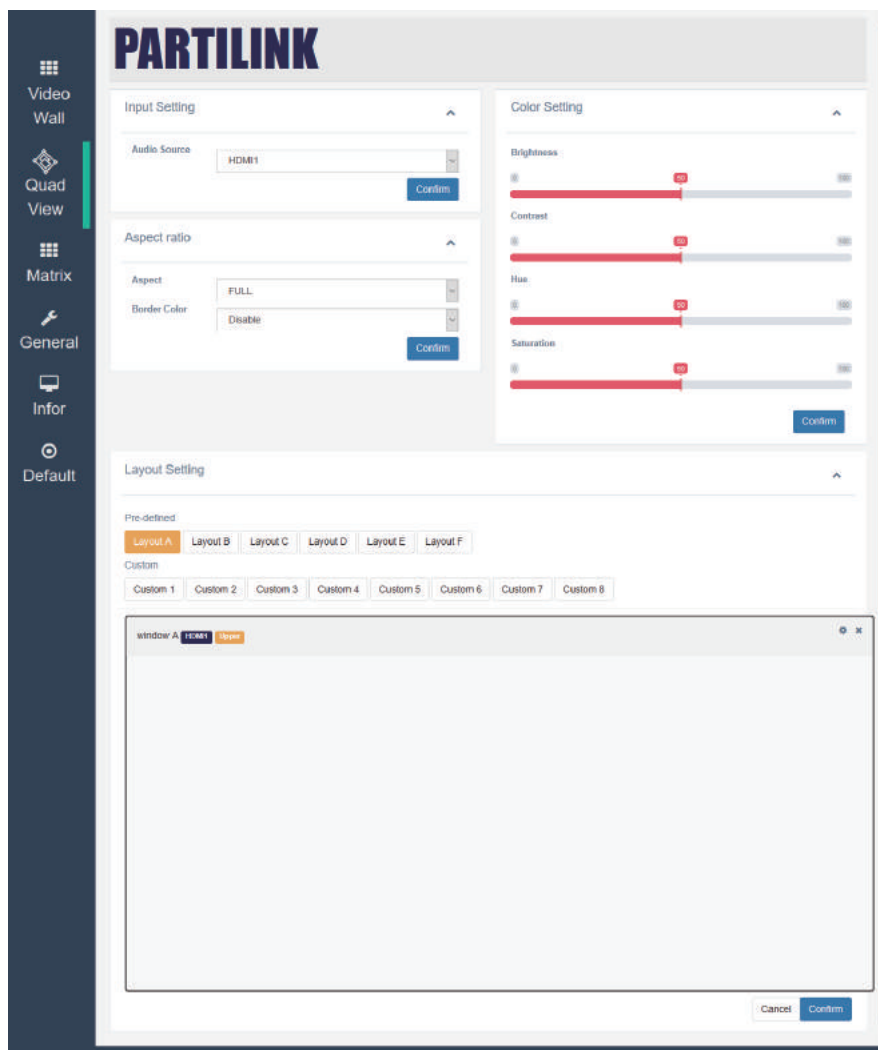# HDMI 2.0 MULTIVIEW VIDEO WALL PROCESSOR

V23-H04H04

OVERVIEW

The Partilink V23-H04H04 HDMI 2.0 Multiview Video Wall Processor is an all-in-one 2x2 video wall system with multiview, scaling, customizing screen layouts, audio management and matrix. Its user friendly web UI, RS232, RS485, RS422 and telnet modular and robust design made the video wall control effectively.

FEATURES

- Fast switching between input channels and combined multiple source images on video wall
- Handles HDMI® signals with Deep Color and HDCP 1.4 / 2.2 sources
- Input resolution up to 4K@60Hz, 4:4:4 color sampling
- Output resolution up to 4K@60Hz, 4:4:4 color sampling
- Upscaling up to 4K@60Hz, 4:4:4 color sampling and able to downscale as well
- PiP, PoP, quad-view flip and multiple customized screen layout configurations for video wall and matrix display
- Rotation (R90° and L90°) when input resolution up to 1080p and flip output in full screen layout
- Stereo audio output
- Control by web UI, RS232, RS485, RS422 and telnet
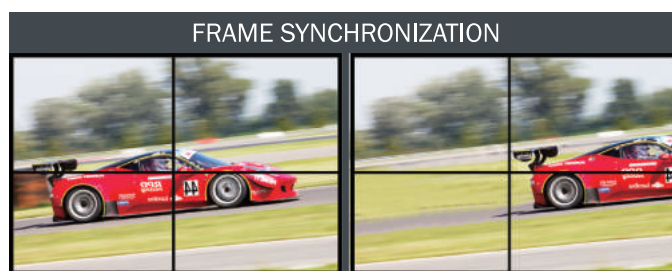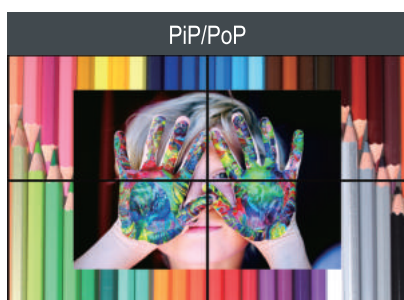- Firmware upgrade via USB port
- Built-in power supply

WEB UI

VIDEOWALL PROCESSOR

APPLICATION

- Hospitality in lobby, hospital, clinic
- Advertising in shopping mall, supermarket, restaurants
- Broadcast in airport, bus or train station, classroom
- Rental and staging
- Entertainment in restaurant, bar, multimedia room, boardrooms, home cinema
- Integrating with DVR, IP camera as a surveillance system
- Monitoring in bank and stock market

PiP/PoP

MATRIX

CROSS SCREEN

FRAME SYNCHRONIZATION

Web UI   **Scaler**   **Customized Layout**   **Multiview**   **Video Wall**

SPECIFICATION

MODEL NO.		V23-H04H04
HARDWARE	System Structure	pure hardware
	Operating System	no CPU and operating system
INPUT/ OUTPUT	Inputs	4 x HDMI 2.0 with locking
	Output	4 x HDMI 2.0 with locking
	Audio Output	terminal block 3 pole, stereo
IMAGE PROCESSING	Display Mode	full screen, PIP, POP, Flip, cross screen, quad view
	Max Input Resolution	Up to 3840 x 2160@60Hz, 4:4:4 color sampling
	Input Resolutions	3840x2160 - 60Hz, 50Hz, 30Hz, 24Hz 1920x1080 - 60Hz, 50Hz, 30Hz, 24Hz 1280x720 - 60Hz, 50Hz, 30Hz, 24Hz 720x480 - 60Hz, 50Hz, 30Hz, 24Hz 480i, 576i - 24Hz to 60 Hz
	Intput Color Format	4:4:4, 4:2:2, 4:2:0
	Max Output Resolution	up to 3840 x 2160@60Hz, 4:4:4 color sampling
	Output Resolutions	4096x2160 - 60Hz, 50Hz, 24Hz 3840x2160 - 60Hz, 50Hz, 30Hz, 24Hz 1080P - 60Hz, 50Hz, 30Hz, 24Hz 1080i - 60Hz 720P - 60Hz, 30Hz, 24Hz
	Output Color Format	4:4:4
	Output Color Depth	8 bpc (24 bit/px)
	Scaler	scaling up to 4K@60Hz, 4:4:4 color sampling and downscaling as well
	Video Bandwidth	up to 18 Gbps
	HDMI Compliance	HDMI 1.4 and HDMI 2.0
	HDCP Compliance	HDCP 1.4 and 2.2
CONTROL METHODS	RS232 / Telnet	1 x D9 female connector / compatible with third party control system
	RS 485 / RS422	5-pole terminal block
	Ethernet Port	1 x RJ45 / compatible with third party control system
	Web UI	browser / touch screen via smatphone or tablet
STABILITY	Safety	hardware structure, no risk of virus interference
	Running Time	no auto-reboot during 365 days/year, 7days/7, 24h/24
FIRMWARE	Possible Upgrade	1 x USB 2.0
POWER	Power Supply	100-240 VAC / 50/60 Hz
	Power Consumption	90W
	Redundant Power Supply	no
ENVIRONMENT	Operating Temperature	0 °C~45°C
	Operating Humidity	20~90% RH
	Storage Temperature	-20 °C~60 °C
PHYSICAL	Dimensions	470 x 370 x 88 mm
	Weight	3.7 KG

MODEL NO.	VP-QV41	VP-QV41H
DESCRIPTION	HDMI 2.0, VGA, DP Multiview Video Processor	HDMI 2.0 Multiview Video Processor
INPUT	HDMI x 4, VGA x 1, DP x 1	HDMI x 4
OUTPUT	HDMI x 1, DP x 1	HDMI x 1
LIMITATION IN QUAD VIEW MODE & TECH INFORMATION	displays up to HDMI x 3 + VGA x 1 or DP x 1 unable to display HDMI x 4 simultaneously	no limitation in quadview mode, able to output HDMI x 4 simutaneously when display
PHOTO		
DISPLAY FEATURE	PiP, PoP (multiview mode), full screen mode on one screen	PiP, PoP (multiview mode), full screen mode on one screen

OPTION FOR ACCESSORIES	P4K2-H1D2	4K60Hz HDMI 2.0 to DP 1.2 converter	HRD-11	HDMI 2.0 booster dongle
	P4K2-HD	4K30Hz HDMI 2.0 to DP converter		
	HRD-11	HDMI 2.0 booster dongle		

REMARK	—	—

VP-KM41	V23-H04H02
HDMI 2.0 & USB Quadview KVM Processor	2x2 HDMI 2.0 Multiview Video Wall Processor
HDMI x 4, USB x 4	HDMI x 4
HDMI x 1	HDMI x 4
no limitation in quadview mode, able to output HDMI x 4 simutaneously when display	no limitation in quadview mode, able to output HDMI x 4 simutaneously when display
full screen and quad-view mode on one screen	PiP, PoP (multiview mode), full screen mode on 2x2 (4 screens) video wall or matrix via 4 separate screens
HRD-11: HDMI 2.0 booster dongle	a) P4K2-H1D2: 4K60Hz HDMI 2.0 to DP 1.2 converter (when required for DP display for medical applicaiton solution) b) P4K2-HD: 4K30Hz HDMI 2.0 to DP converter (when required for DP display for medical applicaiton solution) c) HRD-11: HDMI 2.0 booster dongle
—	The multiview video wall series includes 2x2, 3x3 and 4x4 video wall models

1080P HDMI EXTENDER OVER IP

P2K-HRSL3E1 / P2K-LHRS1E3
P2K-HRSL3E1-P / P2K-LHRS1E3-P (PoE)

OVERVIEW

The Partilink 1080P HDMI Extender series is composed of transmitter and receiver to extend HDMI, RS-232 and IR over IP via CATx cable and Gigabite Ethernet switch. Suitable for point to point uni-cat, point to multi-point or multi-point to multi-point multi-cast.

FEATURES

- RS-232 bi-directional extension
- 4 bits switch for 16 stream channel selection
- 2 bits switch for 8 RS-232 Baud rate setting
- HDCP compliant and Blu-Ray ready
- IR extension
- Automatic EDID configuration
- Networking environment under 10/100 BASE-T switch hub and CAT-5 cable switch hub and CAT-5 cable
- Point to point extension, unicast and multicast
- Point to point extension via CATx without Ethernet switch up to 100M
- PC tool Ethernet and web UI control
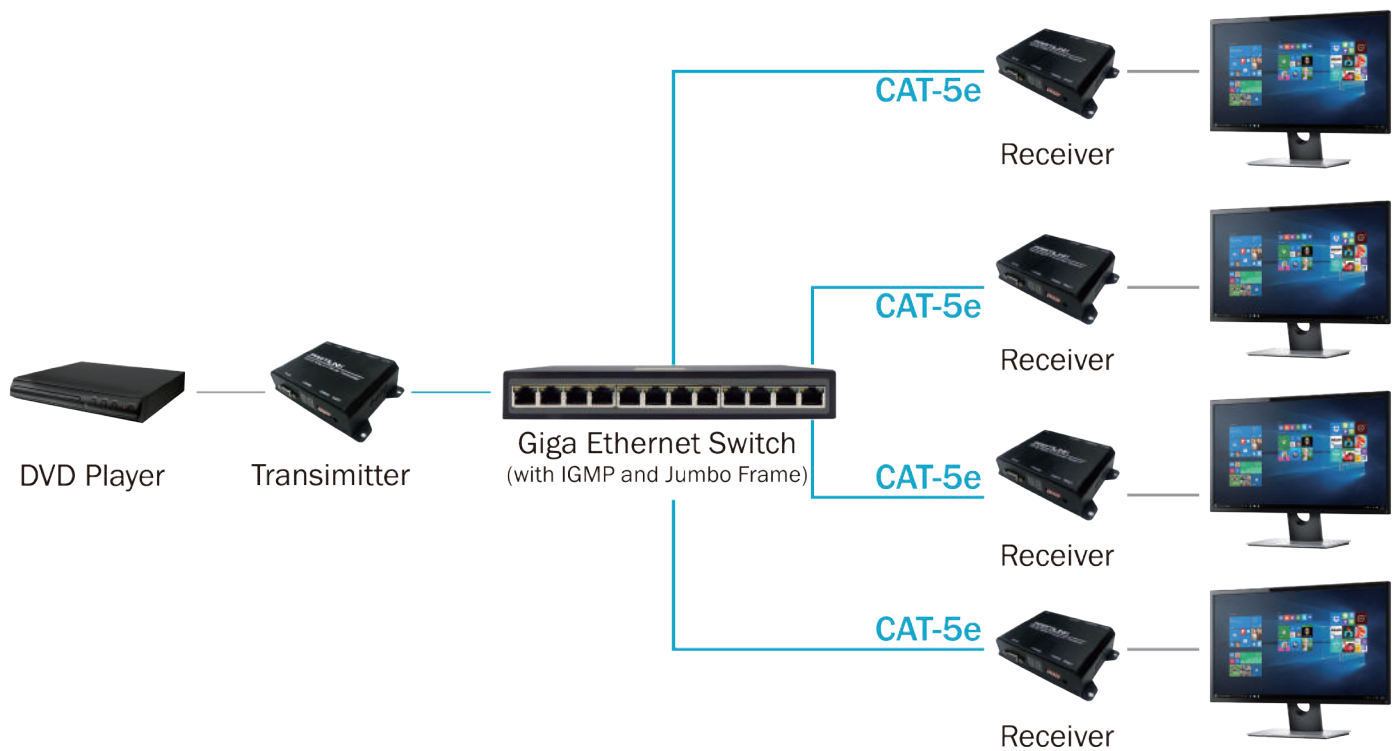- P2K-HRSL3E1-P / P2K-LHRS1E3-P version supports Power over Ethernet

APPLICATION

- Unicast, point to point extension
- Multicast, point to multi points or multi points to multi points extension
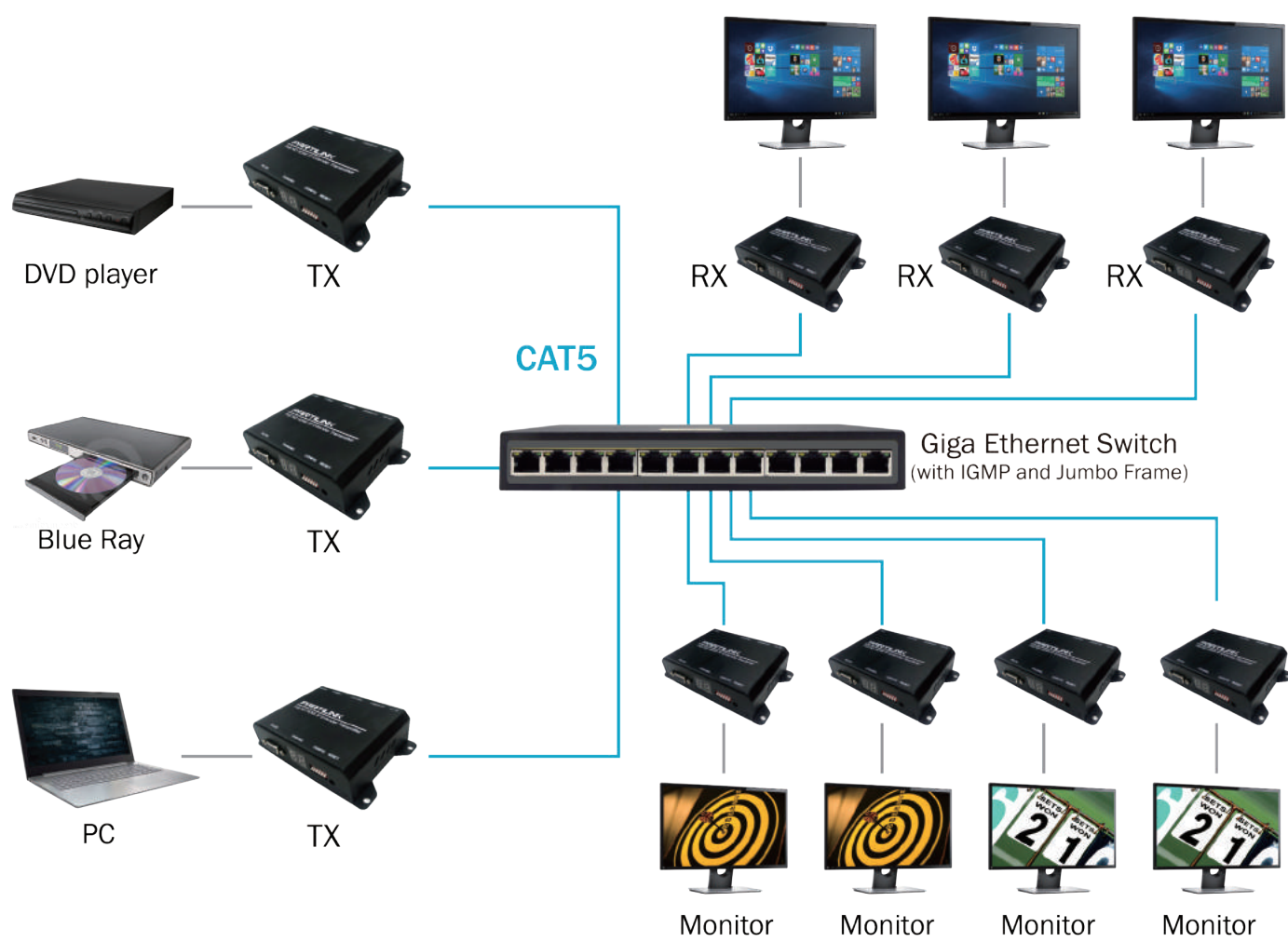- Screen wall installation

■ Unicast

CAT-5e

Transimitter   Receiver

■ Multicast

a. Video Distribution

DVD Player   Transimitter

Giga Ethernet Switch
(with IGMP and Jumbo Frame)

CAT-5e   Receiver

CAT-5e   Receiver

CAT-5e   Receiver

CAT-5e   Receiver

b. Matrix Distribution

DVD player   TX

Blue Ray   TX

PC   TX

CAT5

RX   RX   RX

Giga Ethernet Switch
(with IGMP and Jumbo Frame)

Monitor   Monitor   Monitor   Monitor

SPECIFICATION

MODEL NO.	P2K-HRSL3E1 P2K-HRSL3E1-P Transmitter	P2K-LHRS1E3 P2K-LHRS1E3-P Receiver
INPUT	HDMI Type-A female connector	None
OUTPUT	HHDMI Type-A female connector for loop through	HDMI Type-A female connector
IR	3.5mm phone jack for IR emitter to control video source device	3.5mm phone jack for IR receiver cable to receive remote signal
COMPRESSION	• H.264 compression video format Full HD encoder/ decoder • MP3 compression audio format stereo 192Kbps encoder/ decoder. • Media stream up to 18Mbps	
HDMI INPUT RESOLUTION	1080p 60/50, 1080p 30/25, 1080i 60/50,720p 60/50, 480i 60/50, 480p 60/50	
HDMI OUTPUT RESOLUTION	1080p 60/50, 1080i 60/50, 720p 60/50, 480i 60/50, 480i 60/50, 480p 60/50	
AUDIO FORMAT	Stereo 192Kbps	
IP PROTOCOL	TCP, UDP, RTSP, RTP, DHCP, IGMP, Multicast, IPV4	
LAN PORT	RJ-45 connector for 10/100 BASE-T CAT-5 extension	
SERIAL	DB-9 female connector for RS-232	
POWER INPUT	• 2.0mm power jack for DC5V/2A • RJ-45, Power over Ethernet 36V~57V / 7W in (PoE model only)	
OPERATING TEMPERATURE	0~55°C	
OPERATING HUMIDITY	5%~90% RH	
POWER ADAPTER	AC in 100~240V (50~60Hz), DC5V/2A out	
	ESD protection air gap discharge ±8KV, contact discharged ±4KV	
DIMENSION	130 x 82 x 30.25 mm (L x W x H)	
WEIGHT	290 G per transmitter or receiver unit	
FRONT & BACK VIEW		

4K UHD HDMI / USB EXTENDER OVER IP

P4K-HRSL4E1 / P4K-LHRS1E4
P4K-HRSL4E1-P / P4K-LHRS1E4-P (PoE)

OVERVIEW

The Partilink 4K UHD HDMI / USB over IP Extender is composed of transmitter and receiver to extend HDMI, USB, RS232, and IR over IP via CATx cable and Gigabite Ethernet switch. It can be applied for point to point uni-cat, point to multi-point or multi-point to multi-point multi-cast and video wall. Easy installation with networking Giga Ethernet switch and CAT-5e cable for building up the extension or broadcast system.
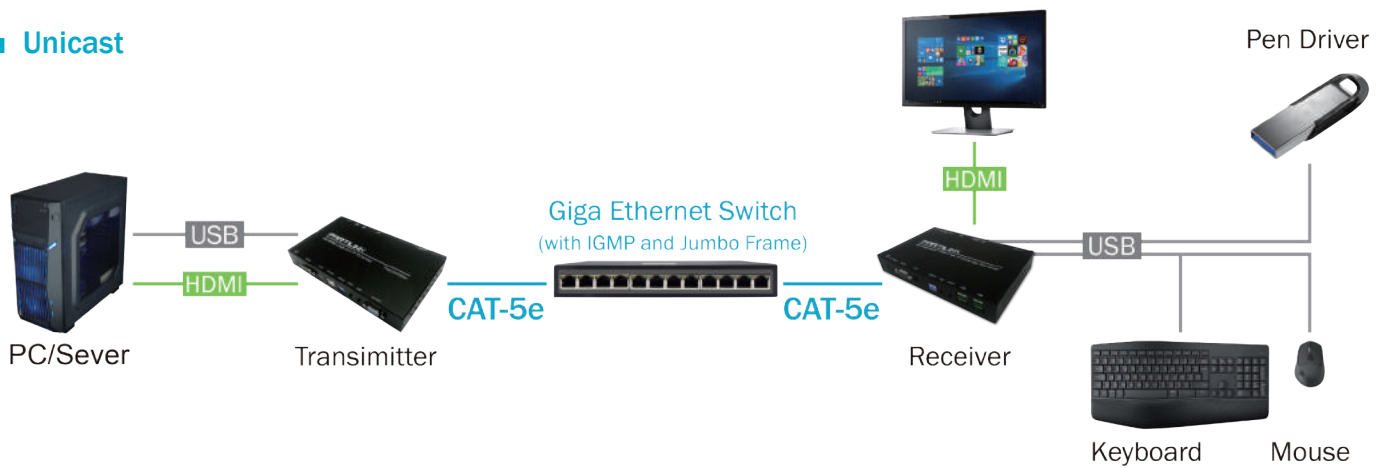
FEATURES

- 4K UHD HDMI over IP extension
- USB 2.0 over IP extension
- RS-232 bi-directional extension
- 4 bits DIP switch for 16 stream channel selection
- HDCP 1.4 compliant and Blu-Ray ready
- Two way IR extension
- Output video rotation
- Output video partial enlargement
- Automatic EDID configuration
- Networking environment under Giga Ethernet switch and CAT-5e cable
- Point to point extension, unicast, multicast and video wall system
- Point to point extension via CAT-5e cable without Ethernet switch up to 100M
- Ethernet webpage management
- RS-232 serial control command management
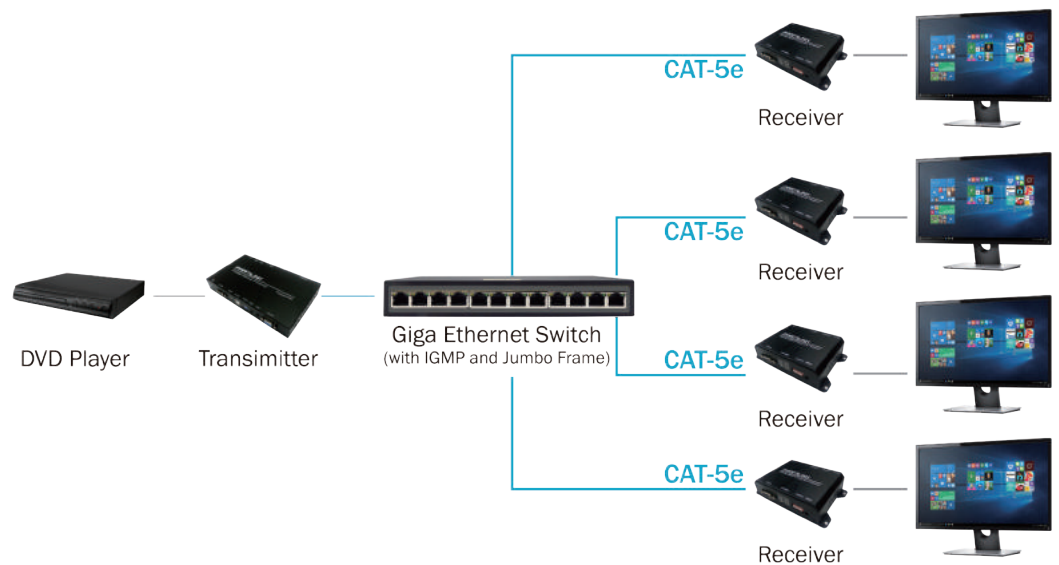- P4K-HRSL4E1-P / P4K-LHRS1E4-P   supports power over Ethernet

APPLICATION

- Unicast, point to point extension
- Multicast, point to multi points or multi points to multi points extension
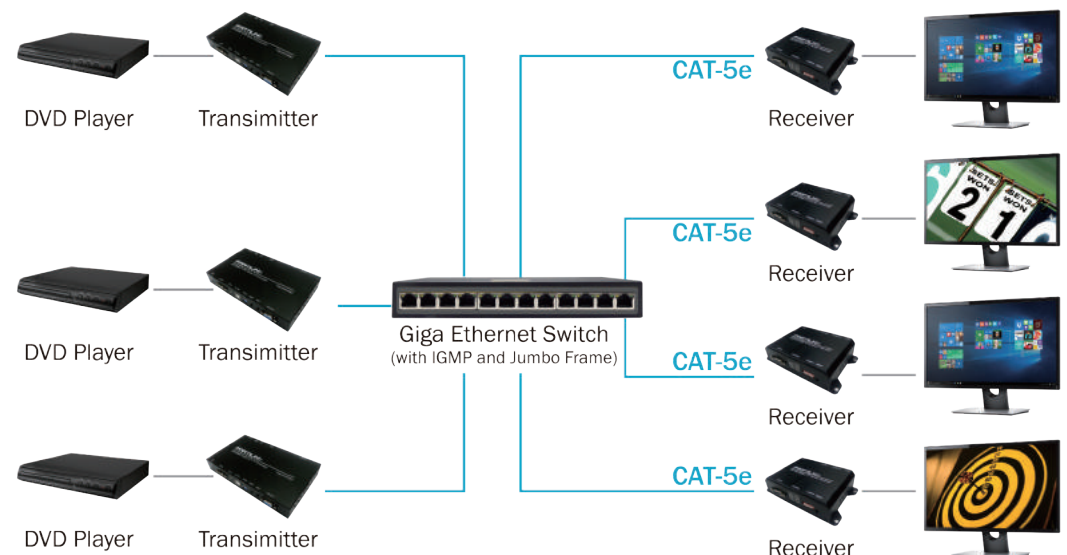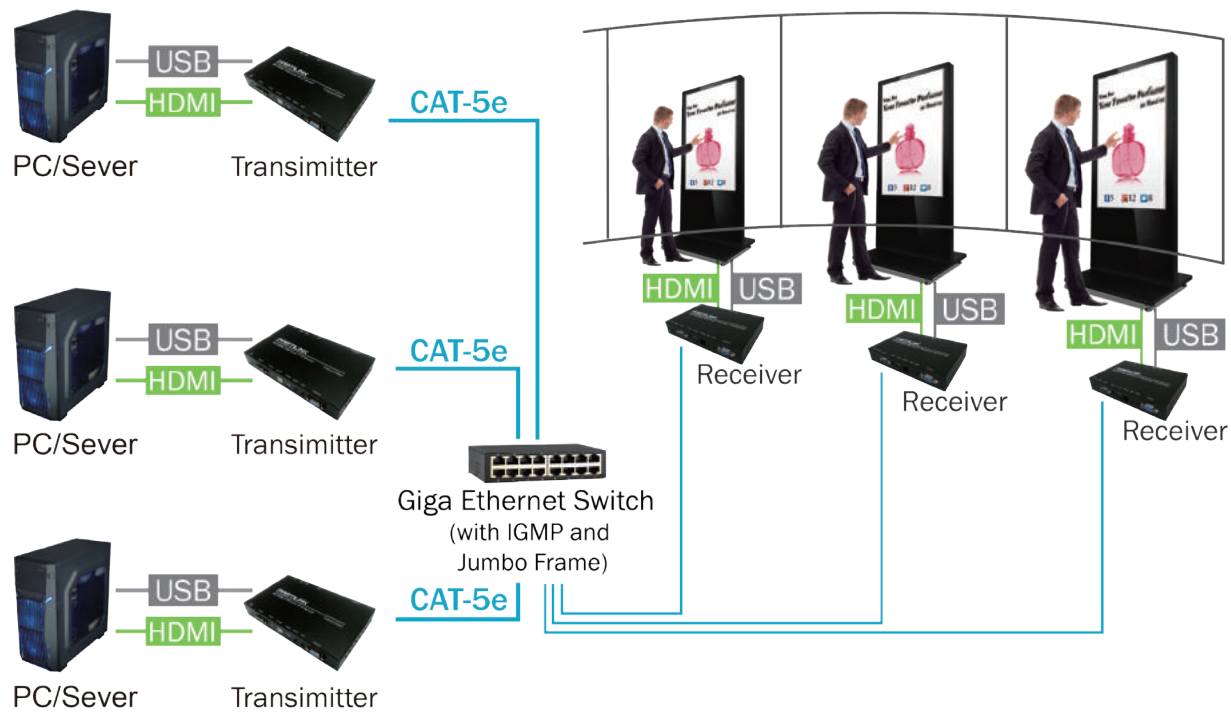- Screen wall installation

■ Unicast

Pen Driver

Giga Ethernet Switch
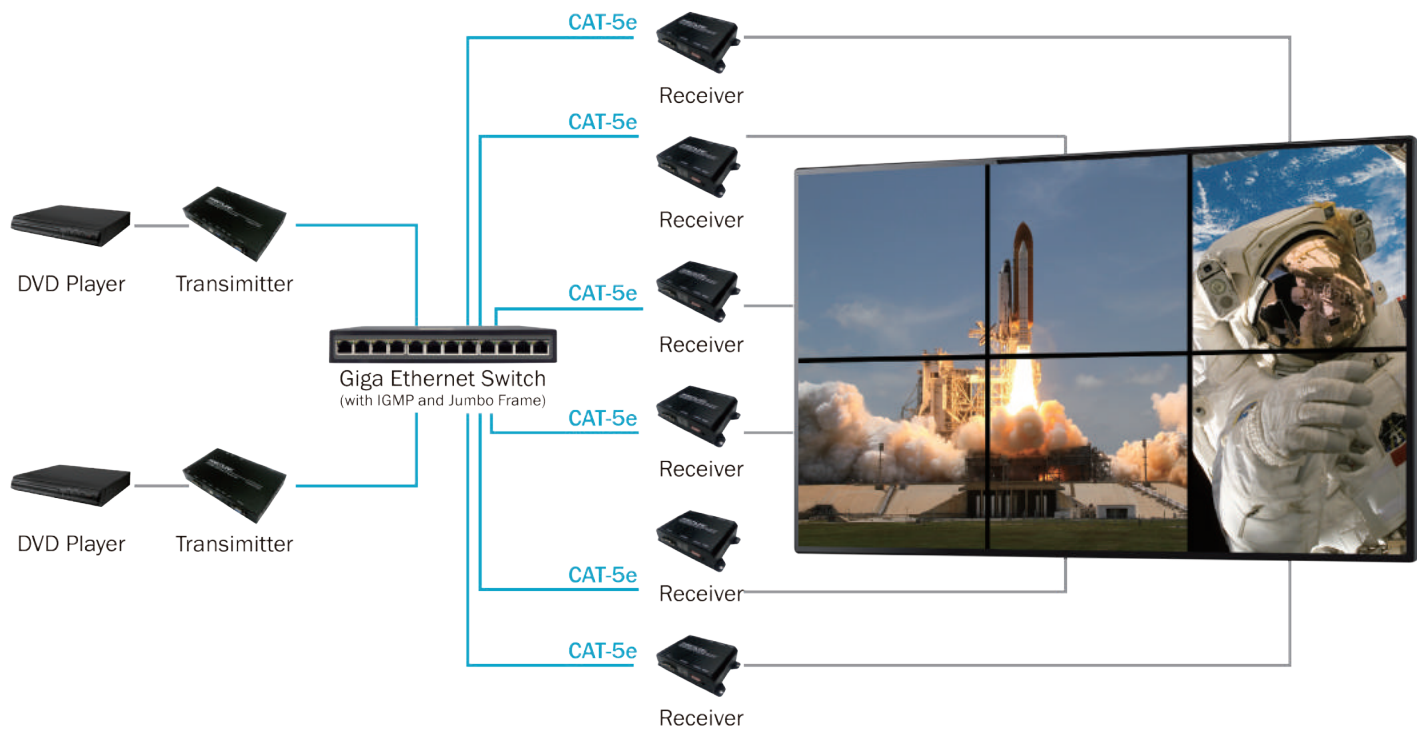(with IGMP and Jumbo Frame)

HDMI

USB

USB

CAT-5e

CAT-5e

PC/Sever

Transimitter

Receiver

Keyboard

Mouse

■ Multicast

a. Video Distribution

DVD Player

Transimitter

Giga Ethernet Switch
(with IGMP and Jumbo Frame)

CAT-5e

Receiver

CAT-5e

Receiver

CAT-5e

Receiver

CAT-5e

Receiver

b. Matrix Distribution

DVD Player

Transimitter

DVD Player

Transimitter

DVD Player

Transimitter

Giga Ethernet Switch
(with IGMP and Jumbo Frame)

CAT-5e

Receiver

CAT-5e

Receiver

CAT-5e

Receiver

CAT-5e

Receiver

c. Billboard & Kiosk, PC to HDMI and USB Interactive Monitor

USB
HDMI
PC/Sever   Transimitter   CAT-5e

USB
HDMI
PC/Sever   Transimitter   CAT-5e

Giga Ethernet Switch
(with IGMP and
Jumbo Frame)

USB
HDMI
PC/Sever   Transimitter   CAT-5e

HDMI USB
Receiver

HDMI USB
Receiver

HDMI USB
Receiver

■ Video wall

CAT-5e
Receiver

CAT-5e
Receiver

DVD Player   Transimitter

Giga Ethernet Switch
(with IGMP and Jumbo Frame)

CAT-5e
Receiver

CAT-5e
Receiver

DVD Player   Transimitter

CAT-5e
Receiver

CAT-5e
Receiver

SPECIFICATION

MODEL NO.	P4K-HRSUL4E1 P4K-HRSUL4E1-P Transmitter	P4K- LHRSU1E4 P4K-LHRSU1E4-P Receiver
INPUT	HDMI Type-A female connector	None
OUTPUT	HDMI Type-A female connector for loop through VGA DB-15 female local output	HDMI Type-A female connector
IR	2x 3.5mm phone jack for IR emitter and receiver to control video source device	
COMPRESSION	Visual lossless compression	
HDMI INPUT RESOLUTION	3840x2160 30/24, 1080p 60/50, 1080p 30/25, 1080i 60/50 720p 60/50, 480i 60/50, 480p 60/50	
HDMI OUTPUT RESOLUTION	3840x2160 30/24, 1080p 30/25, 1080i 60/50,720p 60/50 480i 60/50, 480p 60/50	
VGA OUTPUT RESOLUTION	1080p 30/25, 1080i 60/50, 720p 60/50 480i 60/50, 480p 60/50	
AUDIO FORMAT	Stereo 192Kbps	
IP PROTOCOL	TCP, UDP, RTSP, RTP, DHCP, IGMP, Multicast, IPV4	
LAN PORT	RJ45 connector for Giga Ethernet	
SERIAL	DB-9 female connector for RS-232	
MANAGEMENT	• LAN port • Embedded webpage management	• Serial port • RS-232 debug, control command
POWER INPUT	• 2.0mm power jack for DC5V/2A	
OPERATING TEMPERATURE	0~55°C	
OPERATING HUMIDITY	5%~90% RH	
POWER ADAPTER	Power adapter AC in 100~240V (50~60Hz)	
	ESD protection air gap discharge ±8KV, contact discharged ±4KV	
DIMENSION	191.6 x 112.8 x 26.85 mm (L x W x H)	
WEIGHT	450 G	
FRONT & BACK VIEW		

HDMI 2.0 SPLITTER
P4K2-HH1S2 / P4K2-HH1S4

OVERVIEW

P4K2-HH1S2 and P4K2-HH1S4 are HDMI 2.0 splitter to distribut one video images and audio to two and four displays.

FEATURES

- Ultra HD video resolution up to 4K @60Hz 4:4:4 display
- HDCP 1.4 / 2.2
- EDID parsing and copy
- Cascade up to 16 layers
- Display HDMI 2.0 YuV 4:4:4 format
- Firmware upgradable via micro USB
- 7.1 CH audio
- LED indicator for power and active status
- RS232 control

SPECIFICATION

MODEL NO.	P4K2-HH1S2	P4K2-HH1S4
VIDEO INPUT	HDMI X 1	HDMI X 1
VIDEO OUTPUT	HDMI X 2	HDMI X 4
BANDWIDTH	18 Gbps	
HDMI VERSION	HDMI 1.4 and 2.0 compliant	
HDCP VERSION	HDCP 1.4 / 2.2	
RESOLUTION	HDMI 4K x 2K @60p HDMI 4K x 2K @60p/1080p/1080i/720p/576p/576i/480p/480i HDMI 1080p 3D @60p	
COLOR DEPTH	24bit/30bit/36bit	
AUDIO FORMAT	LPCM/Dolby-AC3/Dolby True HD/DTS MD master audio	
DATA RATE	Data transfer throughput 6.0Gbps	
RS232 control	TxD , RxD , SG	
OPERATING TEMPERATURE	0~65°C	
OPERATING HUMIDITY	5%~90% RH	
DIMENSION	154 x 69.2 x 23 mm (L x W x H)	194 x 114.7 x 28 mm (L x W x H)
WEIGHT	255 G	604 G
FRONT & BACK VIEW		

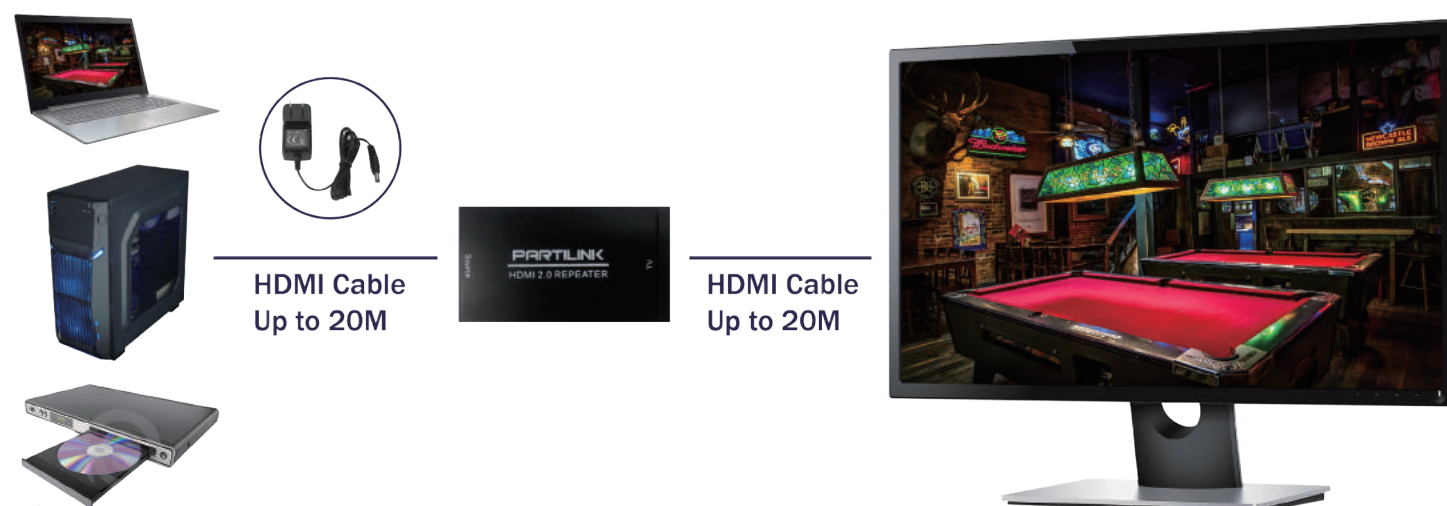# HDMI 2.0 REPEATER / BOOSTER BOX

HR-11

OVERVIEW

The Partilink HRD-11 repeater dongle is a booster to regenerate the HDMI 2.0 signal for extension distance up to 20M. Just connect the repeater between HDMI source and HDMI display such as monitor or projector. The maximume distance from the repeater to display can be up to 20M. It's also capable to cascade up to 10 units of the repeater.

FEATURES

- Allows HDMI 2.0b signals to be sent over long distances using standard HDMI cables
- HDCP 1.4 and 2.2 compliant
- Serial data rate up to 6.0 Gbps, 18GHz bandwidth
- UHD (Ultra-High Definition) 4K / 2K at 60 Hz
- Retiming capability to transmit clean regenerated signals
- Adaptive and programmable input equalization supporting long and short lengths of cable
- Maintains full quality of the signal in a single HDMI link up to 4K 60Hz 4:4:4 color sampling
- Removes noise generating by long length HDMI cable for better audio visual quality
- CEC/ ARC pass through
- Extension length up to 20M
- Able to cascade up to 10 units

HDMI Cable
Up to 20M

HDMI Cable
Up to 20M

SPECIFICATION

MODEL NO.	HR-11
DESCRIPTION	HDMI 2.0 Repeater Box
MAX INPUT RESOLUTION	HDMI x 1 type A female Resolutio n 3840 x 2160/ 4096 x 2160 @60Hz 4:4:4
MAX OUTPUT RESOLUTION	HDMI x 1 type A female Resolution 3840 x 2160/ 4096 x 2160 @60Hz 4:4:4
VIDEO BANDWIDTH	18 Gbps
HDCP VERSION	1.4 and 2.2 compliant
LED INDICATOR	LED x 1, green, red and orange for status indication
AUDIO	Digital audio output over HDMI
POWER	Power supply DC5V Power consumption 1W (max.) Power jack Φ1.3mm Including Power Adapter EU 5V + Cable USB A to DC 3.5 mm/1.35 mm 5 Volt
ENVIRONMENT	Operating temperature 0~45°C Operating humidity 20~90% Storage temperature 20~60°C
DIMENSION	154 x 69.2 x 23 mm (L x W x H)
CASE MATERIAL	Robust metal case
FRONT & BACK VIEW	

HDMI 2.0 REPEATER/ BOOSTER
HRD-11

OVERVIEW

The Partilink HRD-11 repeater dongle is a booster to regenerate the HDMI 2.0 signal for extension distance up to 20M. It's built with a HDMI cable to connect with HDMI 2.0 display directly and a USB cable for power supply from the display. It's compliant with HDMI 1.4 and 2.0 and HDCP 2.2. compatible.

FEATURES

- Built-in 50cm HDMI and USB cable for HDMI signal transmission and repeater dongle USB power supply
- Apply to improve the video quality when source from PC, laptop, DVD player and connecting
   with HDMI display or projector
- HDCP 1.4 and 2.2 compliant
- Serial data rate up to 6.0 Gbps, 18GHz bandwidth
- UHD (Ultra-High Definition) 4K / 2K at 60 Hz
- Retiming capability allows for clean regenerated signals for transmission
- Adaptive and programmable input equalization supporting long and short cables
- Maintains highest HDMI single link video resolution 4K2K@60Hz 4:4:4
- Remove noise generating by long HDMI cable for better video quality
- CEC/ ARC pass through
- Extension length up to 20 meter on repeater source input

HDMI Cable
Up to 20M

SPECIFICATION

MODEL NO.	HRD-11
DESCRIPTION	HDMI 2.0 Repeater Dongle (Booster)
INPUT INTERFACE	1 x HDMI Type A female Resolution 3840 x 2160/ 4096 x 2160 @60Hz YUV 4:4:4
OUTPUT INTERFACE	Built-in 50cm HDMI cable with HDMI Type A male connector Resolution 3840 x 2160/ 4096 x 2160 @60Hz YUV 4:4:4
VIDEO BANDWIDTH	18 Gbps
HDCP VERSION	1.4 and 2.2 compliant
AUDIO	Digital audio output over HDMI
POWER	Built-in 50cm USB cable with USB Type A male connector
ENVIRONMENT	Operating temperature 0~45℃ Operating humidity 20~90% Storage temperature -20~60℃
DIMENSION	25 x 13.5 x 500 mm (including the pigtail 500mm, length ± 20)
FRONT & BACK VIEW	

HDMI2.0 to DP1.2 CONVERTER
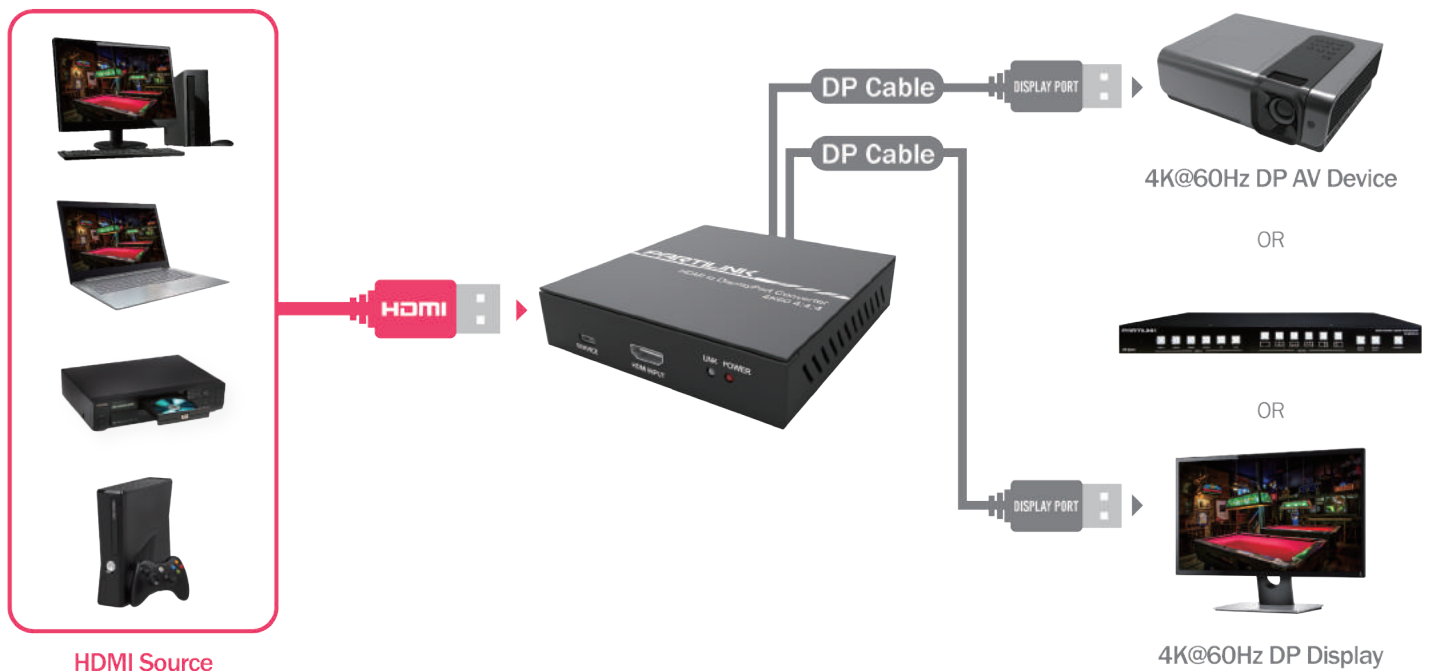
P4K2-H1D2

OVERVIEW

P4K2-H1D2 is a HDMI 2.0 to DisplayPort 1.2a convertor which provides 1 HDMI input and 2 DisplayPort outputs. It supports resolution up to 4Kx2K@60 4:4:4 color sampling. Beside the converter function, it can be taken as a HDMI to DP 1x2 splitter

FEATURES

- DisplayPort 1.2a & HDMI 2.0 compliant
- HDMI input supports video bandwidth up to 18Gbps.
- HDCP 1.4 / 2.2
- DisplayPort output supports link rate RBR/HBR/HBR2
- Resolution up to 4Kx2K@60 4:4:4 8bits
- Stereo audio
- Firmware upgrade via USB port

HDMI Source

DP Cable

DP Cable

4K@60Hz DP AV Device

OR

OR

4K@60Hz DP Display

SPECIFICATION

MODEL NO.	P4K2-H1D2
INPUT INTERFACE	1 x HDMI Type A female Resolution 3840 x 2160/ 4096 x 2160 @60Hz YUV 4:4:4
OUTPUT INTERFACE	2 x DisplayPort female Resolution 3840 x 2160/ 4096 x 2160 @60Hz YUV 4:4:4
AUDIO	Stereo, 32k~192kHz sampling rate
POWER	DC 12V/2A, locking barrel connector
ENVIRONMENT	Operating temperature 0~45°C Operating humidity 20~90% Storage temperature -20~60°C
DIMENSION	108 x 114 x 24.6 mm (W x L x H)
WEIGHT	356 G
FRONT & BACK VIEW	

HDMI 1.4 to DP1.2A CONVERTER
P4K2-HD

OVERVIEW

P4K2-HD is a converter to convert the HDMI1.4 signal to DP1.2 A for output. It support resoltuion up to 3840 x 2160 @30Hz.

FEATURES

- Plug & play
- HDMI speed up to 2.97 GbPs
- HDCP 1.1 compliant
- DisplayPort output supports link rate RBR (1.62Gbps)/ HBR (2.7Gbps) / HBR2 (5.4 Gbps)
- Resolution up to 3840 x 2160@30Hz
- Low power consumption, no external power required
- EDID pass through

HDMI Source   HDMI Cable   HDMI   DisplayPort   **DP Output**

SPECIFICATION

MODEL NO.	P4K2-HD
INPUT INTERFACE	1 x HDMI Type A female Resolution 3840 x 2160@30Hz, 1920 x 1080 p @120Hz
OUTPUT INTERFACE	1 x DisplayPort male Resolution 1920 x 1080Pp @120Hz 24 bit, 1920 x 1200p @60Hz 24 bit, 3840 x 2160@30Hz 24 bit
AUDIO	7.1 digital up to 192kHz sampling rate
POWER	DC 12V/2A, locking barrel connector
ENVIRONMENT	Operating temperature -20~85°C Working humidity 20~95% RH non-condensing
DIMENSION	40 x 15 x 45 mm (W x H x D), cable length 95mm
WEIGHT	25 G
FRONT & BACK VIEW	

NOTES

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