HT-GEMINI

4K 6 Multiformat Input Extender Switch with USB Extension for Softcodec

PRODUCT OVERVIEW

This product is a 4K 6 Multi-format Inputs Extender Switch with USB Extension for a soft codec, which provides AV switching, USB, HDMI, DP, VGA, and USB-C extension, plus system control for meeting spaces using PC-based conferencing codecs such as Microsoft Skype, Webex by Cisco and Citrix GoTo Meeting. The kit offers six video inputs shared between both devices for HDMI, Display Port, VGA plus analog audio in and USB-C video signals. To simplify conference room device management, the kit provides four USB Type-B connectors for host computers. Six built-in USB hubs, three on the transmitter and three on the receiver, allow for numerous Human Interface Devices (HID) as well as USB cameras and microphones.

The kit is compatible with Ultra High-Definition source up to 4K/UHD@60 Hz with 4:2:0 color subsampling. All audio, video, data, control, USB, and Ethernet transmission between the two devices is carried over a single, Ethernet-enabled HDBaseT link up to 100m/330ft.

It simplifies classroom and small office system integration, for installation beneath conference tables and in lecterns, to provide localized presentation switching support

FEATURES

- HDMI 2.0 with 4k@60Hz (Chroma sub-sampling 4:2:0 8-bit only) and HDCP 2.2 compliance, VGA input up to 1920x1200@60Hz.
- Provides a variety of interfaces including USB-C to simplify meeting room devices management.
- Inputs connected to either the transmitter or the receiver can be displayed on the HDMI out on either the transmitter or the receiver or both simultaneously.
- Automatically detects active inputs when sources are connected.
- Supports USB hosts such as Desktop and Laptop, and peripheral USB devices such as keyboard, mouse, microphone, speaker, camera, and whiteboard for a conference system.
- Ethernet can be connected into either the receiver or the transmitter, providing LAN accessibility for users.
- Allows connected displays to be controlled via CEC commands or front panel buttons.
- Relay commands can be triggered to control relay devices such as projection screens.
- RS232 pass through; IR pass through from TX to RX.
- API Control via LAN interface and RS232-C.
- De-embedded audio can be routed out of the Receiver to an external amplifier.

TRANSMITTER:

Technical	
Input / Output Ports	1 x VGA IN, 1 x Audio IN (followed with VGA IN),1 x HDMI IN, 1 x DP IN, 1 x USB-C IN, 1 x HDBT OUT, 1 x HDMI OUT, 2 x LAN, 1 x RS232-P, 1 x RS232-C, 2 x USB HOST, 3 x USB DEVICE, 1 x IR IN, 1 x DC 12V IN
Input Signal Type	HDMI 2.0 with 4k@60Hz (Chroma sub-sampling 4:2:0 8-bit only) DP/USB-C: DP 1.2
Output Signal Type	HDMI2.0 with 4k@60Hz (Chroma sub-sampling 4:2:0 8-bit only); HDBT2.0
Resolution Supported	HDMI: 800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x800@60Hz,1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1440x900@60Hz, 1400 x 1050@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1200@60Hz, 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080p@24/25/30/50/60Hz, 1080i@50/60Hz, 4096 x 2160@24/25/30/50/60Hz, 3840 x 2160@24/25/30/50/60Hz DP/USB-C: 800x600@60 Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1440 x900@60Hz, 1600 x900@60Hz, 1600 x1200@60Hz, 1680 x1050@60Hz, 1920 x1080@60Hz, 1920 x1200@60Hz, 1280x720P@50Hz, 1280x720P@60Hz, 1920x1080P@50Hz, 1920x1080P@60Hz, 3840x2160@50Hz, 3840x2160@60Hz, 4096x2160@50Hz, 4096x2160@60Hz VGA: 640 x 480@60Hz, 800 x 600@60Hz, 1024 x 768@60Hz, 1280 x 720@60Hz, 1280 x 768@60Hz,1280 x 800@60Hz, 1280 x 1024@60Hz,1360 x 768@60Hz, 1366 x 768@60Hz, 1400 x 1050@60Hz, 1440 x 900@60Hz, 1600 x 1200@60Hz, 1680 x 1050@60Hz, 1920 x 1080@60Hz, 1920 x 1200@60Hz NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only
Maximum Pixel Clock	297MHz
Audio Format Supported	HDMI: Fully supports audio formats in HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X AUDIO IN: PCM 2.0

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
Surge Protection	Voltage: ±1 kV
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) ±4kV (Contact discharge)
Power Supply	DC12V 2A
Power Consumption (Max)	14.5W
Device Dimension (W x H x D)	220mm x 42mm x 150mm / 8.66" x 1.65" x 5.91"
Product Weight	0.97kg / 2.14lb

RECEIVER:

Technical	
Input/Output Ports	1 x HDBT IN, 2 x HDMI IN, 1 x HDMI OUT, 1 x IR OUT, 1 x RS232-P, 1 x RS232-C, 2 x LAN, 3 x USB DEVICE, 2 x USB HOST, 1 x SCREEN UP, 1 x SCREEN DOWN, 1 x DC 12V IN
Input Signal Type	HDMI2.0 with 4k@60Hz (Chroma sub-sampling 4:2:0 8-bit only); HDBT2.0
Output Signal Type	HDMI2.0
Resolution Support	800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1440x900@60Hz, 1400 x 1050@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1200@60Hz, 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080p@24/25/30/50/60Hz, 1080i@50/60Hz, 4096 x 2160@24/25/30/50/60Hz, 3840 x 2160@24/25/30/50/60Hz NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only
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Surge Protection	Voltage: ±1 kV
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) ±4kV (Contact discharge)
Power Supply	DC12V 2A
Power Consumption (Maximum)	16.5W

General	
Device Dimension (W x H x D)	220mm x 42mm x 150mm / 8.66" x 1.65" x 5.91"
Product Weight	0.95kg/2.09lb

Transmission Distance

Note: T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 5e	100m/330ft	Up to 1080p 60Hz 36bpp
	90m/300ft	1080p 60Hz 48bpp 1080p 60Hz 3D
Cat 6/6a/7	100m/330ft	4K2K/30Hz/4:4:4 24bpp 4K2K/60Hz/4:2:0 24bpp

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