100m Cat.6A HDMI 4K60, Audio, IR & RS-232 HDBaseT 3.0 KVM Extender

Part No.: 38344

Description

- Distributes HDMI resolutions up to 100m over Cat.6A or above network cable via HDBaseT technology
- Supports HDMI 18G resolutions up to 4K@60Hz 4:4:4, with additional support for HDR
- eARC/ARC Support as well as USB, RS-232, CEC & Ethernet pass-through & bi-directional IR for simple control
- Supports PoC (Power over cable), requiring a power supply connection from only one side of the installation
- 2 year warranty

The Lindy 100m Cat.6A HDMI 4K60, Audio, IR & RS-232 HDBaseT KVM Extender is a complete end to end high performance, reliable solution for extending uncompressed HDMI signals over long distances via Cat.6A network cable.

The following distance and resolution combinations are possible when using high quality Cat.6A or above U/FTP solid core cable*:

100m: 3840x2160@60Hz 4:4:4 8bit / 4:2:2 12bit

Supporting resolutions up to 4K Ultra HD, video can be viewed in stunning clarity, while additional support for HDR (High Dynamic Range) allows content to be displayed with enhanced brightness, greater contrasts of blacks and whites and a much wider colour gamut. This provides a reliable solution for creating eye-catching digital signage in retail, immersive displays at events or engaging setups in larger conference rooms or lectures halls.

An HDMI loop-out port on the transmitter allows an additional local display to be connected to the source side of the installation.

eARC/ARC support over HDMI allows for audio content to be returned from the display to a connected amplifier or soundbar, while local audio extraction allows for the connection of audio outputs for immersive multi-channel audio. Audio embedding or de-embedding at the transmitter side can easily be switched via the push button on the main unit while it supports audio de-embedding at the receiver side to connect an audio source.

PoC (Power over Cable) functionality provides additional flexibility. This allows power to be supplied alongside data through Cat.6 network cable in a point-to-point connection between the transmitter and receiver, meaning only a single power supply is required at the transmitter unit. Ideal when power outlets are limited at the receiver end of the installation.

USB 2.0 ports allow for mouse, keyboard, and other devices to be connected to both units to control a source device such as a PC or laptop from each side of the installation. Featuring bi-directional IR ports at both sides of the setup, the source equipment can be easily controlled from the display side, and the display can also be controlled from the HDMI source side. Combined with CEC control, which allows commands from one main remote, this extension system allows for complete and simple control for the user. Bi-directional RS-232 and Ethernet ports also allow for integration into larger control systems, or connection to network switches and hubs with LAN access.

In addition, the power supply is connected via a screw type DC jack, providing a more secure and reliable connection, perfect for professional installations where accidental disconnections could create a major issue.

HDBaseT is a globally recognised standard for high quality distribution of AV content and other technologies, including power and control, over longer distances via low cost Cat.6 or above cable. To reach the best performances, U/FTP solid core Cat.6A or Cat.7 cable is recommended for HDBaseT 3.0.

*Cat 6A U/FTP is the recommended setting; the skewless nature and inter-pair shielding of FTP provides the better near-end crosstalk (NEXT, source end) and far-end crosstalk (FEXT, receiver end) parameters required to achieve the maximum performance and distance.

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Technical details

Specifications

- AV Interface: HDMI
- Interface Standard: HDMI 2.0, USB 2.0
- Supported Bandwidth: 18 Gbps
- Maximum Distance: 100m (328.08ft)
- Maximum Resolution: 3840x2160@60Hz 4:4:4 8bit
- HDCP Support: 2.3
- EDID Pass Through: Pass-through
- Supported Audio: HDMI Audio Pass-through

TosLink (Optical) Up to 5.1Ch

3.5mm Up to 2.0Ch

- Separate Audio Ports: TosLink (Optical), 3.5mm
- IR Support: 20 - 60KHz
- CEC Support: Pass-through
- Serial Interface: RS-232
- Transmission Protocol: HDBaseT 3.0
- Transmission Medium: 1 x Cat.6
- Laser Class (only for Fibre): -
- Wavelength (only for Fibre): -
- Chipset: VS3000
- Special Features: HDMI Loop Out Port

USB Host/Device on each unit
PoC (Power over Cable)

eARC/ARC and Audio embedding/de-embedding Support

Connectors

- Transmitter Input: HDMI Type A (Female), USB Type B (Female), 3.5mm IR (Female)
- Transmitter Output: HDMI Type A (Female), RJ-45 (Female), TosLink (Optical) (Female), 3.5mm Audio (Female), 2 x USB Type A (Female)
- Transmitter Bi-directional Ports: 3.5mm Audio (Female), RS-232 3-Pin Terminal Block, RJ-45 Ethernet (Female)
- Receiver Input: RJ-45 (Female), USB Type B (Female), TosLink (Optical) (Female), 3.5mm IR (Female)
- Receiver Output: HDMI Type A (Female), 2 x USB Type A (Female), 3.5mm Audio (Female), 3.5mm IR (Female)
- Bi-directional Ports: RS-232 3-Pin Terminal Block, RJ-45 Ethernet (Female)
- Power: 5.5/2.1mm

Physical Properties

- Dimensions (approx.) WxDxH: 170x88x20mm (6.69x3.46x0.79in) per unit
- Housing Material: Metal
- Net Weight: 1.143kg (2.52lb)
- Operating Temperature: 0°C - 40°C (32°F - 104°F)
- Storage Temperature: -20°C - 60°C (-4°F - 140°F)
- Humidity: 20 - 90% RH (non-condensing)
- Power Requirements: 24VDC 1A
- Colour: Black

Miscellaneous

- Packaging Type: Carton Box
- Packaging Dimensions: 290x75x220mm (11.42x2.95x8.66in)
- Gross Weight: 1.442kg (3.18lb)
- Warranty (Years): 2
- Certificated: CE, UKCA, FCC, RoHS, REACH & California Proposition 65

Package Contents

- HDBaseT HDMI KVM Extender, Transmitter
- HDBaseT HDMI KVM Extender, Receiver
- IR Emitter Cable, 1.5m
- IR Receiver Cable, 1.5m
- 4 x Mounting Ears & 8 x Screws
- 2 x 3-Pin Terminal Block
- Multi-country Power Supply (UK, EU, US & AUS)
- Lindy Manual

Purchasing Information

- No.: 38344
- EAN: 4002888383448