HDMI over Cat6 Receiver for Medical Applications, 4K @ 60 Hz, HDR, 4:4:4, PoC, 230 ft., TAA

MODEL NUMBER: **B127M-100-H**









Receives a 4K audio/video signal via Cat6 cable from an HDMI source up to 230 ft. away.

Features

HDMI Receiver Ideal for Medical Environments
The B127M-100-H pairs with B127M-004-H splitter or B127M-101-H extender kits (all sold separately) to receive 4K video for medical applications in hospitals, clinics, physicians' offices and other medical environments where the source and display are farther apart than conventional A/V cables allow. This receiver conforms to strict EMI/RFI and ESD requirements and can be used as a replacement receiver for B127M-101-H extender kit.

Receives a 4K A/V Transmission from Up to 230 ft.
The B127M-100-H receivers combine with the B127M-004-H four-port splitter to extend 4K signals from an HDMI source device to HDMI displays up to 230 feet away via user-supplied Cat6/6a cabling. Connect as many as four B127M-100-H receivers to the B127M-004-H to complete a long-distance multi-monitor installation.

Receives Crystal-Clear 4K Video with Multi-Channel Audio
The HDCP 2.2-compliant B127M-100-H supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 60 Hz, as specified by HDMI 2.0, with 36-bit Deep Color, 4:4:4 chroma subsampling and full, rich uncompressed DTS-HD, Dolby TrueHD and 7.1-channel digital audio. High Dynamic Range (HDR) provides a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on 4K displays.

Meets EMI/RFI and ESD Requirements Necessary for Use in Medical Applications
This 4K receiver meets CISPR 11- Group 1 Class A and IEC 61000-4-2 (ESD) Test level 4 standards for environments with strict EMI/RFI and ESD limitations. It is approved for medical applications where reducing electrical interference is vital to the proper functioning of equipment.

Built-In PoC Technology Provides Power to Avoid Bulky External Power Bricks
Power over Cable (PoC) technology powers the receiver over Cat6 cable. LEDs on both this receiver and the connected transmitter or splitter will light up to indicate the system is receiving power and a signal is being transmitted. PoC lets you avoid the hassle of a bulky power brick and gives you the freedom to place the B127M-100-H where needed without worrying about finding a convenient AC outlet.

Plug-and-Play Operation for Quick Setup and Immediate Use
The B127M-100-H works right out of the box with no software required. Mounting hardware is included for

Highlights

- Supports 4K @ 60 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- Carries High Dynamic Range (HDR) signals for rich contrast and expanded color accuracy
- Power over Cable (PoC) technology provides power to the receiver via Cat6 cable
- Features EMI/RFI and ESD protection required for use in medical environments
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

Applications

- Connect a laptop for a video or PowerPoint presentation in a hospital conference room, where the source device changes frequently
- Extend video signals from one room to another using Cat6 cable, which can pass through conduit to meet building codes
- Gain flexibility in where the units are placed, with the freedom to move and relocate the PoC receiver away from an AC outlet
- Improve the line of sight for digital signage in a hospital, clinic, doctor's office or other medical setting

System Requirements

- Source device with HDMI output (Blu-ray player, cable box, laptop)
- Display device with HDMI input (HDTV, projector, monitor)
- B127M-004-H splitter or B127M-101-H transmitter/receiver extender kit

Package Includes

- B127M-100-H Receiver
- Mounting hardware
- Owner's manual

installing the receiver on a wall, pole or 19-inch rack. Connect up to four receivers to HDMI displays (HDTV, projector, monitor, etc.) with user-supplied HDMI cables (such as P569-XXX-CERT Series). Then, connect the splitter or transmitter to the source (Blu-ray player, cable box, laptop, media server, etc.) with a user-supplied HDMI cable. Finally, connect the splitter or transmitter to the B127M-100-H with user-supplied 26 AWG STP Cat6/6a patch cable (such as N262-Series).

TAA-Compliant for GSA Schedule Purchases
The B127M-100-H is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

Specifications

OVERVIEW	
UPC Code	037332262585
Product Type	Receiver
Technology	Cat6; HDMI; POC
VIDEO	
Video Input	HDMI (FEMALE)
Video Output	HDMI (FEMALE)
Number of Monitors Supported	1
Video Ports	HDMI (FEMALE)
Video Ports Details	HDMI 2.0; HDCP 2.2
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K)
Max Supported Video Resolution	3840 x 2160 @ 60 Hz
Max. Distance (Between any 2 Units)	230 ft.
Maximum Distance with Booster	400
Receiver/Transceiver Video Output	HDMI
Receiver - Number of Video Outputs	1
Max Supported Color Depth	36-bit Deep Color
HDR Support	Yes
3D Video Supported	Yes
Chroma Sub Sampling	4:4:4
Maximum Signal Range (ft)	230
Maximum Signal Range (m)	70
AUDIO	
Audio Specification	True uncompressed 7.1 Channel digital audio
INPUT	

Bus Powered	No
POWER	
Power Over Cable (PoC) Support	Yes
Receiver Power Source	Power Over Cable
CONNECTIONS	
Side A - Connector 1	RJ45 (FEMALE)
Side B - Connector 1	HDMI (FEMALE)
Daisy-chainable / Cascadable	No
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	Power = Green (1); RJ45 Jack (Green) = Receiving power from connected transmitter; RJ45 Jack (Orange)= Receiving data from connected transmitter
PHYSICAL	
Color	Black
Material of Construction	Metal
Included Mounting Accessories	Surface Mount Bracket
Rackmountable	Yes
Shipping Dimensions (hwd / in.)	2.17 x 8.43 x 6.46
Shipping Dimensions (hwd / cm)	5.51 x 21.41 x 16.41
Shipping Weight (lbs.)	1.00
Shipping Weight (kg)	0.45
Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457
Unit Dimensions (hwd / cm)	2.7 x 11.5 x 6.24
Unit Packaging Type	Box
Unit Weight (lbs.)	1
Unit Weight (kg)	0.45
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0 to 85%, Non Condensing
ESD Protection	IEC 61000-4-2 (8kV contact, 15kV air)
COMMUNICATIONS	
Signal Range (ft.)	230
Signal Range (m)	70

Transmission Distance	230 ft. (70 m)
EDID Compatible	Yes
IR Remote Extension Support	No
RS-232 Serial Extension Support	No
Consumer Electronics Control (CEC) Supported	No
Latency	0
USB Extension Support	No
FEATURES & SPECIFICATIONS	
EMI/RFI Line Noise Protection	Yes
Integrated/Removable Cable	No
MST Support	No
Mounting Accessory Included	Yes
Multi-Resolution Support	Yes
HDCP Specification	2.2
Driver Required	No
Recommended Category Cable	26AWG STP Cat6/6a
DIN Mountable	No
STANDARDS & COMPLIANCE	
Product Compliance	RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty

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