

CR-BDET86-RX

Wall Plate 4K HDBaseT transmitter



CR-BDET86-RX

Product overview

CR-BDET86-RX is a 4K60 HDMI receiver for wall-plate transmitter CR-uCAT5 DET86. The extenders can extend HDMI high-definition signal, bidirectional IR control signal, bidirectional RS-232 control signal and USB 2.0 signal over CAT6 to the distance up to 328ft/100m (HBT mode) or 492ft/150m (LRM mode). Video resolution is up to 4K2K@60Hz (4:4:4). They also support POC function with POC control switch.

The Extender can be widely used in other fields such as video conference system, multimedia signal broadcasting, HDMI signal extension, etc.

Features

- HDMI 2.0b, HDCP 2.2/1.x and DP 1.2a compliant
- HDMI input supports 18Gbps video bandwidth
- USB input supports 5.4Gbps video bandwidth
- Support video resolution up to 4K2K@60Hz (4:4:4)
- Up to 7.1 channels HD audio
- Input signal source selection supports button switching
- Built-in mode DIP switch for selecting the HBT mode or LRM mode
HBT mode: Audio and video signals can be transmitted up to 328ft/100m for 4K60/4K30/1080P
LRM mode: Audio and video signals can be transmitted up to 492ft/150m for 4K30/1080P
- Built-in EDID DIP switch supports intelligent EDID management
- Built-in audio DIP switch supports analog audio embedding
- Built-in POC switches, when both POC switches of TX and RX are turned on, the Extender supports bidirectional 24V POC function, that is, either TX or RX is powered by 24V1A power supply, the another does not need power supply from the DC jack
- Transmit bidirectional Infrared control signal together with the HDMI Signal
- IR IN is a 5V power supply level
- Transmit bidirectional RS-232 control signal together with the HDMI Signal
- The receiver supports USB 2.0 signal transmission
- The transmitter fits standard 86mm×86mm wall box

Specifications

The parameter name	CR-BDET86-RX
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	HDMI: 18Gbps; USB-C : 5.4Gbps
HDMI Video Resolution	Up to 4K2K@60Hz 4:4:4
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12bit
HDMI Audio Formats	LPCM 7.1CH, Dolby True HD and DTS-HD Master (Full format)
Analog Audio Embedding	48KHz

Specifications

The parameter name	CR-BDET86-RX
Transmission Distance	LRM mode: 492ft/150m (4K30/1080P) STD-HBT mode: 328ft/100m (4K60/4K30/1080P)
ESD Protection	Human body model: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Interface	Input: 1 x HDBT IN [RJ45] Output: 1 x HDMI OUT [Type A, 19-pin female] 1 x AUDIO OUT [3pin-3.81mm Phoenix connector] Control: 2 x USB 2.0 [USB Type A] 1 x RS-232 [3pin-3.81mm Phoenix connector] 1 x IR IN [3pin-3.81mm Phoenix connector] 1 x IR OUT [2pin-3.81mm Phoenix connector] 1 x SERVICE [Micro USB]
Color	Black
Dimensions	157.2mm [W] x 88mm [D] x 20mm [H]
Weight	377g
Power Consumption (Max)	12.48W (Max)
Power Supply	24V/1A (supporting bidirectional POC power supply)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Diagram

