CR-UCAT HDMI100H3R
4K HDBaseT Receiver

CR-UCAT HDMI100H3R

Product overview

CR-UCAT HDMI100H3R is a HDBaseT 3.0 Extender can extend uncompressed HD/UHD video and audio signals, eARC/ARC, RS-232, bi-directional IR, 1GbE ethernet and USB2.0 signals up to 100m/328ft via a single CAT6A/7 cable. The Transmitter supports audio embedding or de-embedding. The Receiver supports audio de-embedding. It also supports eARC/ARC from RX's HDMI output pass through to TX's HDMI input or de-embedding to TX's HDMI audio only and SPDIF output ports, USB 2.0 (Host/Device is configurable) and bi-directional POC.

CR-UCAT HDMI100H3R offers ideal solutions for homes, offices, digital entertainment centers, control centers, conference rooms, schools and corporate training environments, where require HDMI source and transmission over long distance.

Features

● HDMI 2.0b, HDCP 2.2 and HDBaseT 3.0 compliant, uncompressed 4K@60Hz 4:4:4 up to 18Gbps video bandwidth
● Support HDR, HDR10, HDR10+, Dolby Vision and HLG pass through, LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD pass through
● Supports eARC/ARC function (the audio is returned to the HDMI IN port, HDMI OUT(AUDIO ONLY) port and SPDIF OUT port of the transmitter.)
● Transmission distance up to 328ft/100 meters via a single CAT 6A/7 cable, with Bi-directional 24V POC function
● Supports USB2.0 transmission, Host/Device is configurable, Bi-directional IR, RS-232 and 1G Ethernet signal pass through

Specifications

Parameter name	CR-UCAT HDMI100H3R
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18 Gbps
Video Resolution	Up to 4K@60Hz 4:4:4
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
SPDIF Audio Formats	LPCM2.0, AC3 5.1, DTS 5.1
Transmission Distance	100m (via a single CAT 6A/7 cable)
Interfaces	Inputs: 1x HDBT IN [RJ45, 8-pin female] 1x SPDIF IN [S/PDIF] Outputs: 1x HDMI OUT [Type A, 19-pin female] 1×L/R OUT [3.5mm Stereo Mini-jack] Controls: 1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [3pin-3.81mm Phoenix jack] 1x SERVICE [Mini-USB, Update port] 1×USB HOST [USB Type B] 2×USB DEVICES [USB Type A] 1x LAN [RJ45]
Dimensions	170mm [W] x 102mm [D] x 22mm [H]
Weight	Transmitter: 425g, Receiver: 437g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	15.36W (POC)
Operating/Storage Temperature	Operating: 32 - 104°F / 0 - 40°C Storage: −4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Diagram

Transmitter
CR-UCAT HDMI100H3T

Receiver
CR-UCAT HDMI100H3R

PC1

Power Supply
Router
CAT 6A/7 cable

DVD or Blu-ray
Player or Amplifier

TV or Amplifier

IR Blaster
IR Receiver

HDMI Matrix with
RS-232 function

Audio Amplifier

PC2

Speakers

IR Blaster

PC3

TV with eARC/
ARC function

IR Receiver

Mouse   Keyboard