

HDMI HDBaseT Extender with Relays & Amplifier

Features

- ◆ Receives HDMI up to 600ft (183m)
- ◆ 2x35 Watt Amplifier ("-A" Version)
- ◆ Differential Line Input / Output for Audio Mixing & HDMI Audio De-Embedding
- ◆ Volume Control
- ◆ Audio Functions Remotely Controlled via Transmitter Unit or Optional IP.
- ◆ IP Control Engine (C Version)
- ◆ Bi-directional RS-232, & IR & LAN
- ◆ Two Relays for Screen Control
- ◆ Rear Mounted Connectors for Clean Installation
- ◆ Status LED for All Connections on Front



Patents Pending
Made in the USA



The DXE-CAT-RX3, DXE-CAT-RX3-A, DXE-CAT-RX3C, & DXE-CAT-RX3C-A are a part of the growing Digital Xtreme Series. This product is different than the typical CAT extender found on the market today as it not only breaks the price barrier but the feature and usability aspects as well. Rear mounted connectors provide for a clean professional installation.

The DXE-CAT-RX3 Series is designed to complement the Digital Xtreme Series of HDBaseT transmitters such as the DXW-2 Series HDBaseT wall plates, DXE-CAT-TX1, DXE-CAT-TX2, DXM Matrixes, etc. The built in relays are perfect for screen control and the audio amplifier versions will fill the room with sound when used with the Aurora SKR-22T 360° sound field ceiling tile speaker. A low cost, highly integrated solution for rolling carts, podiums, and credenzas is possible with the DXE-CAT family.

Going the distance: HDBaseT technology, with a single CAT cable, allows the DXE-CAT to operate up to 328ft 1080p 60Hz 48bit color depth, 500ft 1080p 60Hz 24bit (CAT 6), or 600ft 1080p 60Hz 24bit (CAT 6A Shielded) depending on transmitter model. In addition, the RS-232, IR, & LAN can be sent over the same cable bi-directionally.

Another industry first is the ability to serve up web control pages via LAN to any browser-enabled device (ex. iPad®, iPhone®, PC, Android®) to take control of the RS-232, IR, and LAN. This is done with the Aurora LXC control system engine inside, so not only is the DXE-CAT an HDMI extender receiver unit, but a fully functional autonomous control system that can operate stand-alone or as a port-expansion for any control system on the market.

Aurora once again is setting the bar for form and functionality at a competitive price.

Technical Specifications

| Model Name | DXE-CAT-RX3 Series | | | |
|------------------------|---|---|---|---|
| Technical | DXE-CAT-RX3 | DXE-CAT-RX3-A | DXE-CAT-RX3C | DXE-CAT-RX3C-A |
| Max Distance | 600ft | 600ft | 600ft | 600ft |
| Max Resolution | 1080p 60Hz | 1080p 60Hz | 1080p 60Hz | 1080p 60Hz |
| RS-232 | Max 115kbps | Max 115kbps | Max 115kbps | Max 115kbps |
| Amplifier | No | 2x35 Watt 4/8 Ohm | No | 2x35Watt 4/8 Ohm |
| Line In/Out | Balanced | Balanced | Balanced | Balanced |
| Relays | 2 Normally Open | 2 Normally Open | 2 Normally Open | 2 Normally Open |
| IR Input & Output | 30Hz-100kHz | 30Hz-100kHz | 30Hz-100kHz | 30Hz-100kHz |
| LAN | 2 - 10/100 | 2 - 10/100 | 2 - 10/100 | 2 - 10/100 |
| LAN POE | Port 1 | Amplifier Requires External Power | Port 1 | Amplifier Requires External Power |
| IP Control System | No | No | Yes | Yes |
| Front LED Status | Power, Status, HDMI, HDBaseT, RS-232 TX/RX, IR In/Out | Power, Status, HDMI, HDBaseT, RS-232 TX/RX, IR In/Out | Power, Status, HDMI, HDBaseT, RS-232 TX/RX, IR In/Out | Power, Status, HDMI, HDBaseT, RS-232 TX/RX, IR In/Out |
| Front Selections | Reset | Reset | Reset/Setup | Reset/Setup |
| Distance | 328ft 100m – 1080p 60Hz 24 & 36bit CAT 5e/6/6a/7 328ft 100m – 1080p 60Hz 48bit CAT 6a/7 230ft 70m – 1080p 60Hz 48bit CAT 5e/6/6a/7 500ft 152m - 1080p 60Hz 24bit (Long Reach Mode) CAT 6 600ft 183m - 1080p 60Hz 24bit (Long Reach Mode) CAT 6A CAT 5e/6 will achieve 328ft 100m for pixel clock <=225MHz CAT 5e/6 will achieve 230ft 70m for pixel clock >225MHz CAT 6a/7 will achieve 328ft 100m for pixel clock >225MHz | | | |
| LAN Connectors | Dual 8P8C with 2 LED indicators each | | | |
| LAN Connectors | Dual 8P8C with 2 LED indicators each | | | |
| HDBaseT Connector | RJ-45 WE/SS 8P8C | | | |
| RS-232 Connector | 3.5mm TRS | | | |
| IR Connector | 3.5mm TRS (Auto Sensing Direction for Blaster or Receiver) | | | |
| HDMI Connector | Type A 19 pin | | | |
| Power Connector | Diameter 1.35mm ID, 3.5mm OD | | | |
| Relay Connector | 3.81mm Euro Style Green 4 Position | | | |
| Line In/Out | Dual 3.81mm Euro Style Green 5 Position | | | |
| Amplifier Connector | 5.08mm Euro Style Green 4 Position | | | |
| Mechanical | DXE-CAT-RX3 Series | | | |
| Housing | Black Aluminum enclosure | | | |
| Dimensions [L x W x H] | 215mm x 97mm x 33mm [8.46" x 3.82" x 1.3"] | | | |
| Weight | 2 lbs | | | |
| Mounting | Wall-mounting & Rack Mounting | | | |
| Power supply | 24 90 Watt DC (Only 1 required on RX) | | | |
| Power consumption | 5 Watts [Typical] 80 Watts (Amplifier full use) [Max] | | | |
| Operation temperature | 0~40°C [32~104°F] | | | |
| Storage temperature | -20~60°C [-4~140°F] | | | |
| Relative humidity | 20~90% RH [no condensation] | | | |

Note: Specifications subject to change without notice. Read User Guide for full specification.