

# XT-CAT-EX40-KIT

## User Manual



## Introduction

Our Slim-Line XT-CAT-EX40-KIT HDMI™ extender set offers HDMI distribution over a single CAT cable at outstanding value. The product delivers HDMI & Bi-directional IR up to lengths of 40m @ 1080p and 50m @ 1080i.

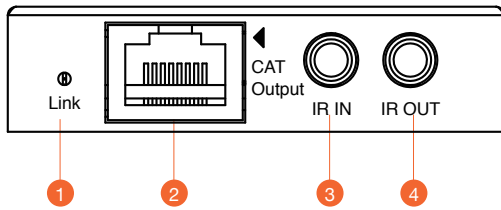
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### Key Features

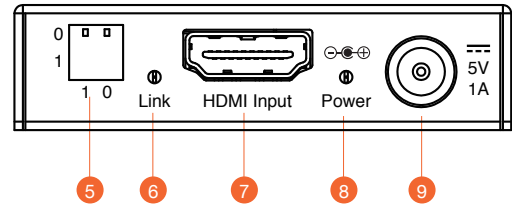
- Extends HDMI up to a distance of 40m 1080p over a single CAT cable (1080i up to 50m)
- Supports video resolutions 480i-1080p (8 bit color support only)
- Supports 3D signal display
- Supports LPCM 7.1ch, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- Supports Bi-directional IR from input and output locations
- Requires local power supply at both the transmitter and receiver end
- HDCP 1.4 compliant
- EDID management

# Panel Description

## XT-CAT-EX40-TX

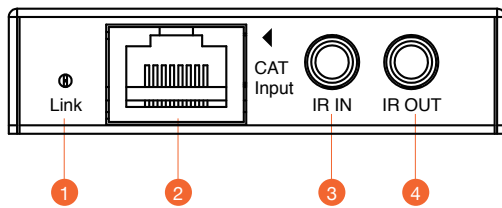


- 1 CAT link indicator
- 2 CAT cable input
- 3 IR Receiver jack (Sensor input)
- 4 IR Transmitter jack (Emitter output)

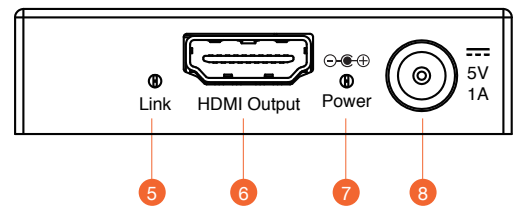


- 5 EDID management - Used to manage the video and audio resolution output by the connected source device. See below for further details.
- 6 HDMI link indicator
- 7 HDMI output
- 8 Power indicator
- 9 5V/1A DC power input

## XT-CAT-EX40-RX



- 1 CAT link indicator
- 2 CAT cable input
- 3 IR Receiver jack (Sensor input)
- 4 IR Transmitter jack (Emitter output)



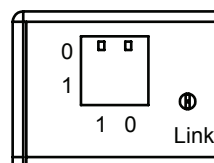
- 5 HDMI link indicator
- 6 HDMI output
- 7 Power indicator
- 8 5V/1A DC power input

# Adjusting The EDID Settings

The EDID configuration can be altered using the 2x dip-switches located on the side panel of the XT-CAT-EX40 Transmitter. Please see table below for EDID settings.

Note: You must power-cycle the HDMI extender kit after changes have been made in order for the EDID settings to update.

EDID Dip-switches



- [DIP]=00: HDMI 1080p, Audio 2ch PCM
- [DIP]=01: HDMI 1080i, Audio 2ch PCM
- [DIP]=10: HDMI 3D, Audio 2ch PCM
- [DIP]=11: Copy EDID from display

Note: Video resolution is limited to 1080p when the EDID is copied from the display (Dip-switches both in position '1,1')

## Understanding the XT-CAT-EX40-KIT status lights

The Xantech HDMI extender solution includes status LED indicators on both the Transmitter and Receiver products to show all connections are active and to help diagnose possible problems.

Understanding the status lights:-

### Xantech Transmitter (TX):

- The link light will be off when there is no signal on the HDMI input (no connection with a source device)
- The link light will blink when there is a signal on the HDMI input but there is no CAT cable/Xantech Receiver connected to the RJ45 output
- The link light will be lit when there is a signal on the HDMI input, a CAT cable is connected to the RJ45 output and an active connection is achieved with a Xantech Receiver.

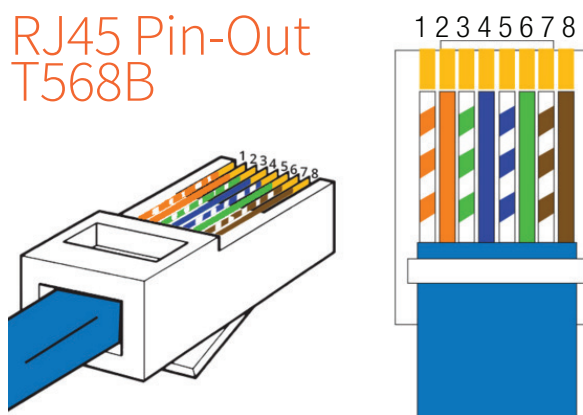
### Xantech Receiver (RX):

- The link light will be off when there is no signal on the HDMI output (no connection with a display)
- The link light will blink when there is a connection on the HDMI output but there is no CAT cable/Xantech Transmitter connected to the RJ45 input
- The link light will be lit when there is connection with a display, a CAT cable is connected to the RJ45 input and an active connection is achieved with a Xantech Transmitter

## Terminating the interconnecting CAT cable

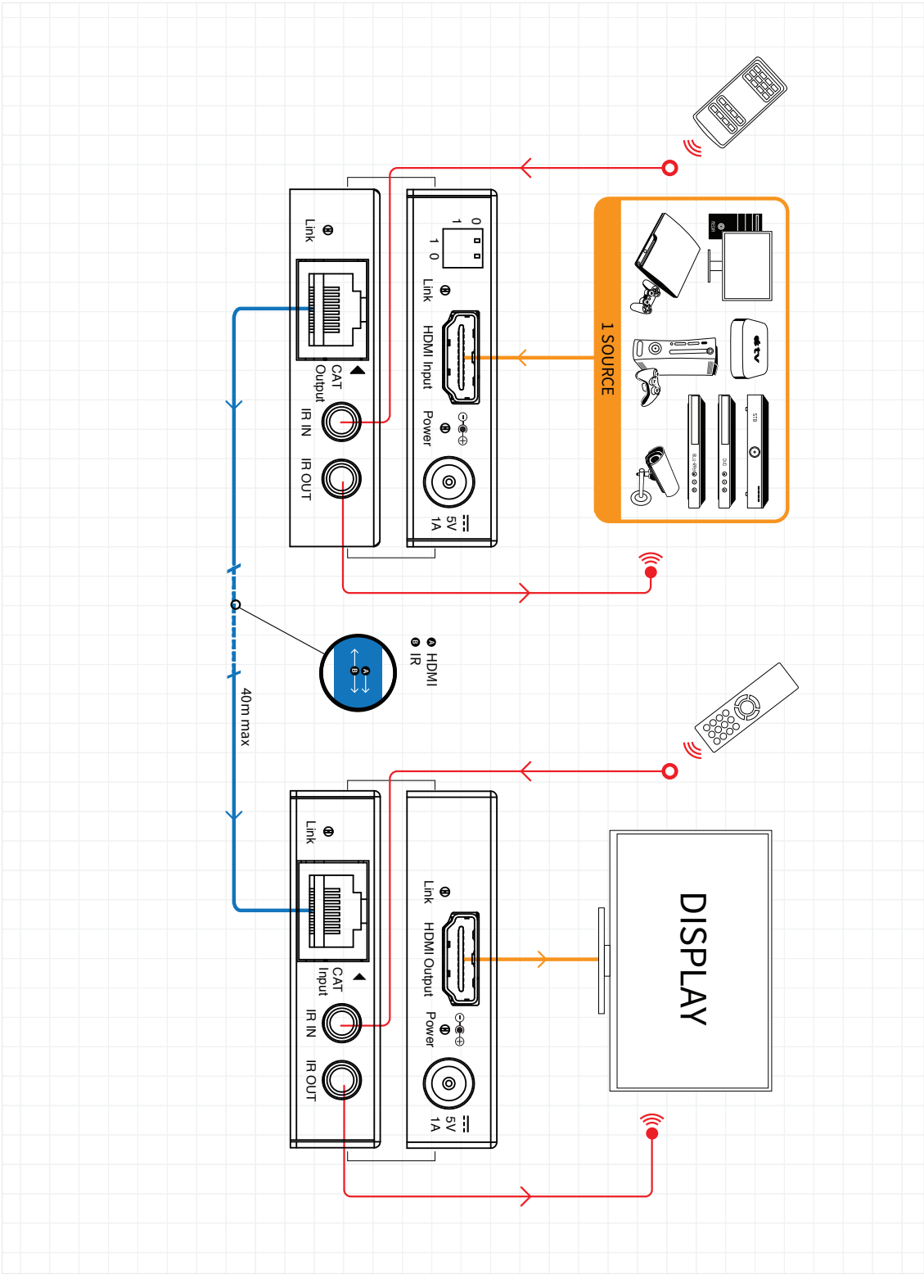
It is important that the interconnecting CAT cable between the Transmitter and Receiver is terminated using the correct RJ45 pin configuration. The link CAT cable **MUST** be a 'straight' (pin-to-pin) CAT cable and it is advised that this is wired to the T568B wiring standard as this format is less prone to EMI (Electro-Magnetic Interference).

When installing CAT cables it is advised that you use the best possible CAT cable quality possible. HDMI distribution products will only work if used with CAT5e standard cable or above. Xantech recommends using a CAT6 cable for your installations.





Example Schematic  
XT-CAT-EX40-KIT



## Specifications:

### XT-CAT-EX40-TX

**Video Input Connectors:** 1x HDMI Type A, 19-pin female

**Video Output Connectors:** 1x CAT RJ45 connector

**IR Input Ports:** 1x 12V 3.5mm stereo jack

**IR Output Ports:** 1x 12V 3.5mm mono jack

**Casing Dimensions (W x H x D):** 98mm x 15mm x 60mm

**Dimensions Inc. Connections (W x H x D):** 102mm x 15mm x 60mm

### XT-CAT-EX70-RX

**Video Input Connectors:** 1x CAT RJ45 connector

**Video Output Connectors:** 1x HDMI Type A, 19-pin female

**IR Input ports:** 1x 12V 3.5mm stereo jack

**IR Output ports:** 1x 12V 3.5mm mono jack

**Casing Dimensions (W x H x D):** 98mm x 15mm x 60mm

**Dimensions Inc. Connections (W x H x D):** 102mm x 15mm x 60mm

**Shipping Weight:** 0.7Kg

**Operating Temperature:** 32°F to 104°F (0°C to 40°C)

**Storage Temperature :** -4°F to 140°F (-20°C to 60°C)

**NOTE:** Specifications are subject to change without notice.

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## Package Contents:

- 1x XT-CAT-EX40-TX
- 1x XT-CAT-EX40-RX
- 2x 5V/1A DC power supply
- 4x Double-sided adhesion strips
- 1x Quick reference guide

## Certifications

### FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION** - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

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