

p.n.300112

# User Manual

## 4K HDMI Extender + Audio

## Introduction

The Extender uses single cat5e or cat6(recommended) cables instead of HDMI cable to transmit high definition signal up to 100 meters, cutting down the cost. The Extender is designed to supply for long distance transmission of high definition signal.

TX Extender

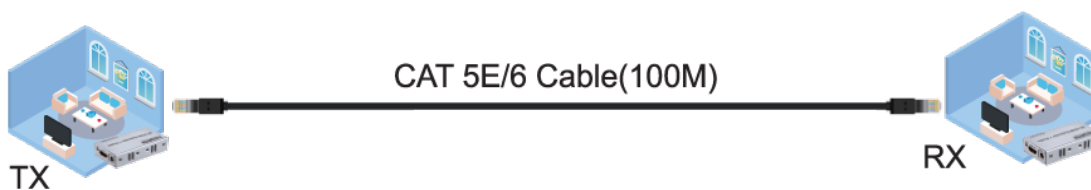


RX Extender



## Features

- 1: Support HDMI 1.4a.
- 2: Support 100m long distance transmission



- 3: Low power consumption, low temperature and high safety.
- 4: Support 3D video format
- 5: Both the TX and RX support 3.5MM left and right audio output
- 6: Support IR control

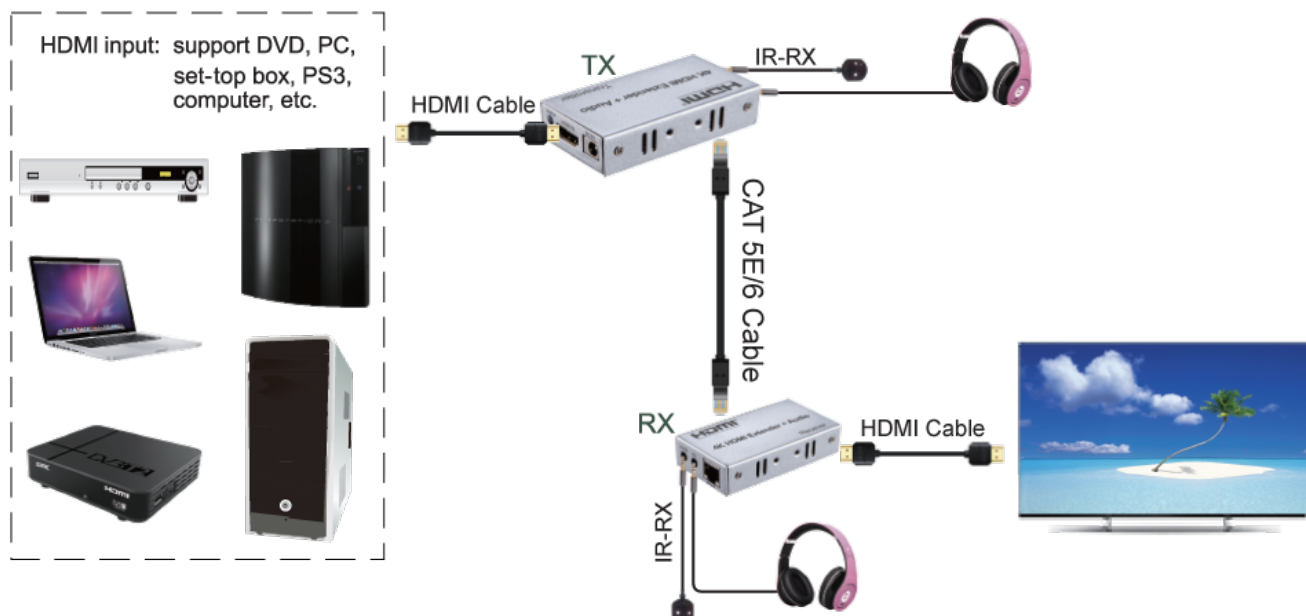
## Specifications:

|                                                    |                                                   |
|----------------------------------------------------|---------------------------------------------------|
| Length of CAT5e/CAT6 cable between Rx and TX ..... | Up to 100 meters                                  |
| HDMI Input .....                                   | 4k/1080p/720p/576p/576i/480p/480i                 |
| HDMI Output .....                                  | 4k/1080p/1080i/720p/576p/576i/480p/480i           |
| Max bandwidth .....                                | 340MHz                                            |
| Max baud rate .....                                | 3x3.4Gbps                                         |
| Input video signal .....                           | 0.5~1.5Volts p-p                                  |
| Output DDC signal .....                            | 5Volts p-p (TTL)                                  |
| Input HDMI cable distance .....                    | ≤15m AWG26 HDMI standard cable                    |
| Output HDMI cable distance .....                   | ≤15m AWG26 HDMI standard cable                    |
| TX Max working current .....                       | 350mA                                             |
| RX Max working current .....                       | 200mA                                             |
| Power adapter format .....                         | Input: AC (50HZ, 60HZ) 100V-240V; Output: DC5V/1A |
| Operating Temperature range .....                  | (-15 to +55°C)                                    |
| Operating Humidity range .....                     | 5 to 90%RH (No Condensation)                      |
| Dimension (L x W x H) .....                        | 82x45x18 (mm)                                     |
| TX Weight .....                                    | 100g                                              |
| RX Weight .....                                    | 120g                                              |

## Connecting and Operating:

1. Connect one HDMI cable between source device and TX Extender, the max cable distance is 15 meters
2. Connect one HDMI cable between display device and RX Extender, the max cable distance is 15 meters
3. Connect single cat-5e or cat-6(recommended) cables instead of HDMI cables between TX and RX Extender, the max cable distance is 100 meters
4. Connect 5V power supply to the TX and RX
5. LED indicator light  
TX LED indicator light: When there is no signal input, it turns blue;  
When there is signal input, it turns red.  
RX LED indicator light: When there is no signal input, it turns blue;  
When there is signal input, it turns red.
6. The pairs of IR RX and IR TX cable connect the 3.5mm IR RX and IR TX port of the receiver and transmitter respectively.(Just connect when you need it)

## Connection diagram:



## Application diagrams

HDMI extender over IP is used in audio-visual conference, command and control center, ticketing platform, home theater, multi-media teaching, conference system and so on.



Audio-visual conference



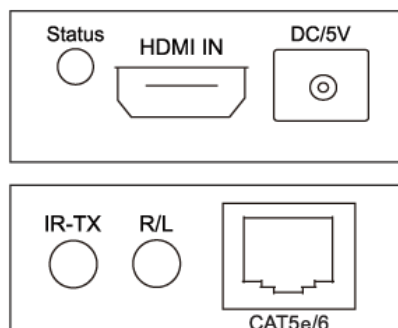
Command and control center



Home Theater

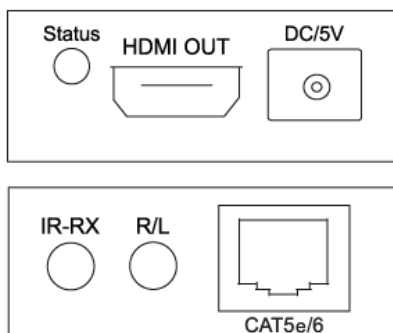
## Physical interface diagram

### TX:



| Port    | Function description                                                       |
|---------|----------------------------------------------------------------------------|
| Status  | Turn on the power, it turns blue. when there is signal input, it turns red |
| HDMI IN | HDMI Input port                                                            |
| DC/ 5V  | 5V DC Power input port                                                     |
| IR-TX   | IR-TX port                                                                 |
| R/ L    | Stereo output                                                              |
| Cat5E/6 | Cat5e / 6 cable connection port                                            |

### RX:



| Port       | Function description                                                       |
|------------|----------------------------------------------------------------------------|
| Status     | Turn on the power, it turns blue. when there is signal input, it turns red |
| HDM INI IN | HDMI Input port                                                            |
| DC/ 5V     | 5V DC Power input port                                                     |
| IR-TX      | IR-TX port                                                                 |
| R/ L       | Stereo output                                                              |
| Cat5E/6    | Cat5e / 6 cable connection port                                            |

### The Package includes:

- |                           |        |
|---------------------------|--------|
| 1. TX Extender            | 1PCS   |
| 2. RX Extender            | 1PCS   |
| 3. IR cable               | 1 Pair |
| 4. 5V/1A DC Power adapter | 2PCS   |
| 5. User Manual            | 1PCS   |