

# DisplayPort CAT5e Extender Series

## ITEM NO.: DP02E 4K DisplayPort CAT5e Extender

DP02E DisplayPort CAT5e Extender is based on HDBaseT technology using only one cost effective CAT5e/6 cable to extend your DisplayPort signal up to 70 meters at 1080p, support up to 4K UHD. It is an ideal solution for extending PC/laptop to a display output to a projector/monitor application.

## DP02E DisplayPort CAT5e Extender

### Features:

- Extends DisplayPort signal over one CAT5e/6 cable.
- DP 1.2a. HDCP compliant.
- Uncompressed high definition video up to 4K UHD.
- Support 1080p@60Hz@16bits at 70M, 4K UHD
- Audio supports up to LPCM 7.1 @ 192KHz, Dolby TrueHD, DTS-HD MA

### Installation view:



### LED Indication :

| Color | Status | DP02ET   | DP02ER |
|-------|--------|--|--------|
| GREEN | ON     | Power on   |        |
| BLUE  | LINK   | ON : LINK Normal, Flash : Low Power Mode<br>*Low Power Mode :<br>When DP02ETno video input or DP02ER not connect any devices, DP02E will enter a low power mode to save power consumption. |        |

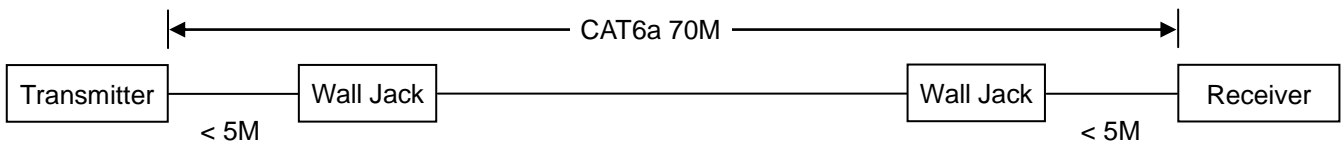
### Cable:

Link cable recommend use high quality Cat.5e 、 Cat.6 、 Cat.6a 、 Cat.7 UTP / STP or FTP cable. Poor quality cable or network connection or improper construction will cause unstable connection, video or sound disruptions, picture noise appears.

## Distance chart by different cable:

| Cable Type   | Range | Supported Video                                       |
|--------------|-------|---|
| CAT5e / CAT6 | 60M   | 1080p 60Hz 12bit                                      |
| CAT6a / CAT7 | 70M   |   |
| CAT5e / CAT6 | 35M   | 1080p 60Hz 16bit<br>Up to 4096x2160@30Hz 4:4:4(9Gbps) |
| CAT6a / CAT7 | 40M   |   |

If connection through the wall socket, the cable length must less 5 meters between HDMI extender and wall jack, as below drawing:



10/100Mbps network connection using general CAT5e cable and working distance up to 60M.

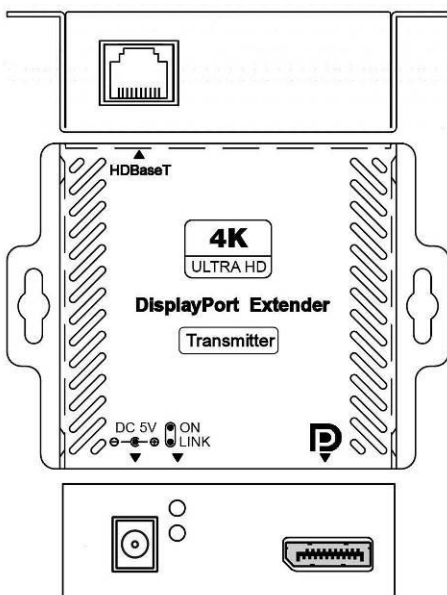
## RJ45 Define:

### Video Link (TIA/EIA-568-B)

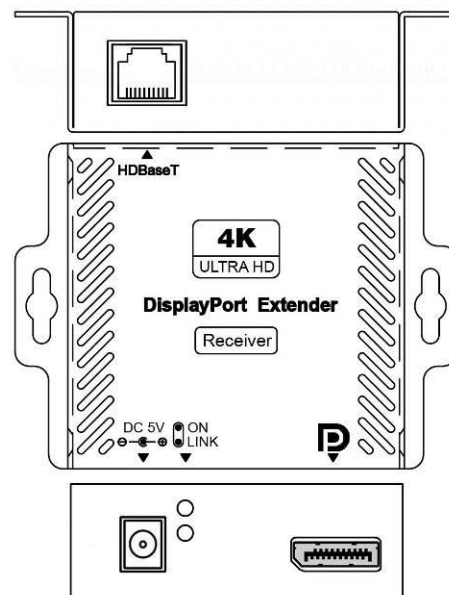
- |                 |         |
|-----------------|---------|
| 1. Orange-white | DATA0 + |
| 2. Orange       | DATA0 - |
| 3. Green-white  | DATA1 + |
| 4. Blue         | DATA2 + |
| 5. Blue-white   | DATA2 - |
| 6. Green        | DATA1 - |
| 7. Brown-white  | DATA3 + |
| 8. Brown        | DATA3 - |

## Panel view:

DP02ET



DP02ER



## Caution:

This device not support MST (Multi Stream Transport) hub function based on DP1.2

## Trouble Shooting:

1. The wiring must away from any equipment with electromagnetic wave, i.e.: mobile phone, microwave, radio equipment, fluorescent lamp, high voltage power lines.
2. The cable must pull in straight to avoid any crosstalk interference and the transmission stability.
3. This device HDBaseT port is not general Ethernet signal; do not connect with Network devices to avoid damage.
4. The receiver unit working temperature is higher which is in normal condition.
5. The bottom dip switch was no function which is reserve.

## DP02E Package Include:

DP02ET DVI Transmitter x 1 pcs

DP02ER DVI Receiver x 1 pcs

Mounting Screw pack x 1 bags

Power Adapter x 2 pcs

## Specification:

| ITEM NO.                 | DP02ET  | DP02ER                 |
|--------------------------|---|------------------------|
| DP Video Support         | 1080p @60Hz@12bit 3D,Up to 4096x2160/30Hz/4:4:4,                  |                        |
| DP Audio Support         | Up to 7.1 LPCM 192KHz / Dolby TrueHD / DTS-HD MA                  |                        |
| Distance                 | 70M (Max)   |                        |
| Input / Output Interface | DisplayPort x 1   |                        |
| RJ45 Connector           | RJ45 x 1  |                        |
| Power Supply             | DC 5V 2A  | DC 5V 2A               |
| Power Consumption        | Max 5W, Low Power 1.32W   | Max 8W,Low Power 1.62W |
| Temperature              | Operation: -10 to 45°C, Storage: -30 to 70°C, Humidity: up to 95% |                        |
| Dimensions               | mm 92 x 69 x 25 (mm)  | 92 x 69 x 25 (mm)      |
| Weight                   | g 160   | 180                    |

RoHS CE FC

Rev. A