DisplayPort CAT5e Extender Series

ITEM NO.: DP02U DisplayPort KVM with USB/RS232 CAT5e Extender



DP02U DisplayPort CAT5e Extender is based on HDBaseT technology using only one cost effective CAT5e/6 cable to extend your DisplayPort signal with USB, Bi-directional RS232 up to 150 meters at 1080p, support up to 4K UHD at 100M. It is an ideal solution for extending PC/laptop to a display output to a projector/monitor application.

DP02U 4K DisplayPort KVM with USB/RS232 CAT5e Extender

Features:

- Extends DisplayPort signal with USB/RS232 over one CAT5e/6 cable.
- DP 1.2a. HDCP compliant.
- Uncompressed high definition video up to 4K UHD.
- Support long reach mode distance up to 150M at 1080p@60Hz.
- Support 4K UHD at 100M.
- Audio supports up to LPCM 7.1 @ 192KHz, Dolby TrueHD, DTS-HD MA
- USB support USB 2.0 and USB 1.0 and 1.1.
- Bi-Directional RS232.

Installation:



LED Indication:

Color	Status	DP02UT	DP02UR
GREEN	ON	Power on	
BLUE	LINK	ON: LINK Normal,	

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.

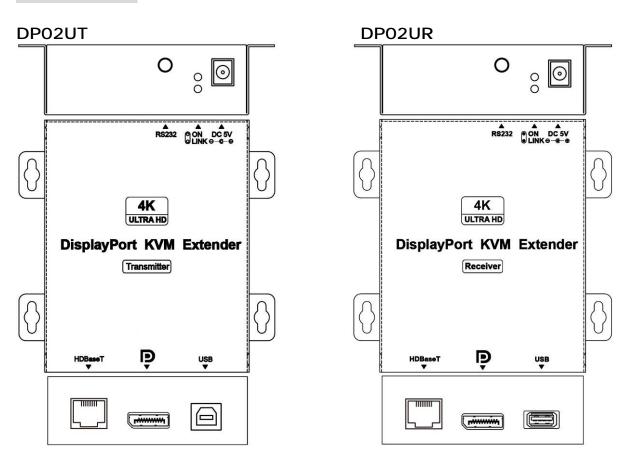
Distance chart by different cable:

Cable Type	Range	Supported Video	
CAT5e / CAT6/CAT6a/CAT7	150M	Long Reach Mode Up to 1080p 60Hz 8bit	
CAT5e / CAT6	100M	Up to 1080p 60Hz 12bit	
CAT5e	90M	1080p 60Hz 16bit	
CAT6/CAT6a / CAT7	100M	Up to 4096x2160@30Hz 4:4:4	

If connection through the wall socket, the DisplayPort cable length between DP02U and Wall Jack must be less than 3 meters, recommend connections below drawing:



Panel view:

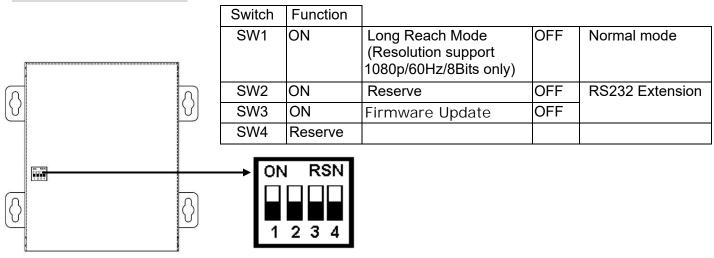


RJ45 Define:

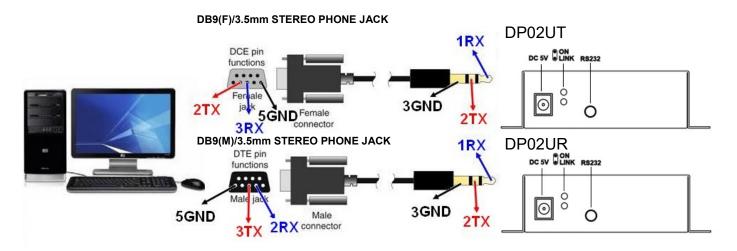
Video Link (TIA/EIA-568-B)

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

Switch Function:



RS232 Define:



DB9(F)/3.5mm STEREO PHONE JACK

RS232		3.5 mm Phone Jack	
Footprint	Define	Footprint	Define
Pin 2	TX	Pin 1	RX
Pin 3	RX	Pin 2	TX
Pin 5	GND	Pin 3	GND

DB9(M)/3.5mm STEREO PHONE JACK

RS232		3.5 mm Phone Jack	
Footprint	Define	Footprint	Define
Pin 2	RX	Pin 1	RX
Pin 3	TX	Pin 2	TX
Pin 5	GND	Pin 3	GND

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. Recommend to use STP or FTP cable for wiring if the installation environment with interference issue or multiple DP02U used.

DP02U Package Include:

DP02UT Transmitter x 1 pcs
DP02UR Receiver x 1 pcs
USB A/B cable x 1 pcs
DB9 (M)/3.5mm STEREO PHONE JACK x 1
DB9 (F)/3.5mm STEREO PHONE JACK x 1
Mounting Screw pack x 2 bags
DC5V 2Amp Power Adapter x 2 pcs

Specification:

ITEM NO.	DP02UT	DP02UR	
DP Input Interface	1	X	
DP Output Interface	X	1	
HDMI Video Support	1080p@60Hz 48bits ,3D, 4K/30Hz/4:4:4		
HDMI Audio Support	Up to 7.1 LPCM 192KHz / Dolby TrueHD / DTS-HD MA		
HDBaseT Connector	RJ45 x 1		
HDBaseT Distance	4K 100M, 1080P 150M (Long Reach mode)		
RS-232 Interface	DB9(F)/3.5mm STEREO PHONE JACK	DB9(M)/3.5mm STEREO PHONE JACK	
RS-232 Baud Rate	115200 bps / full duplex		
USB input/output	USB Type B x 1	USB Type A x 1	
Power Consumption	Max: 5W	Max: 6W	
Power Adapter	Regulated DC 5V/2A		
Temperature	Operation: -10 to 45℃, Storage: -30 to 75℃, Humidity: up to 95%		
Dimensions mm	109.6 x 109.4 x 30		
Weight g	265	265	



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