



HDMI/VGA to HDBaseT Wallplate





Overview

HE20 embedded wall panel transmitter using HDBaseT technology to transmit video, audio and control signals (can be used with the matrix), and HDBaseT series interface products are fully compatible. Support CVBS, YPbPr, VGA, DVI, HDMI signal transmission and IR, RS232 pass through function, DC 12V / 2A power supply and support POC power supply.

This product is mainly used in radio and television engineering, multimedia conference hall, TV teaching, command and control center and other occasions.

Features

- Support CV, YPbPr, VGA, DVI, HDMI video and audio signal transmission;
- Support the input source signal automatically switches the adaptive function;
- Support output resolution adjustable, up to 1080P @ 60;
- Support IR, RS-232 pass through function;
- Use CAT5 UTP cable to transmit (up to 100M).
- Support POC power supply function.



Specification

Model	VIS-HE20			
Analog Video Input				
Interface	VGA PORT			
Signal type	CV	YPbPr	Y/C	VGA
Gain	0dB	0 dB	0dB	0 dB
Bandwidth	150MHz @ -3dB	350MHz @ -3dB	150MHz@-3dB	380 MHz
Differential phase error	0. 1°,3.58-4.43 MHz	0. 1°, 3.58- 4.43 MHz	0. 1°,3.58-4.43 MHz	
Differential gain error	0. 1%, 3.58-4.43 MHz	0. 1%, 3.58-4.43 MHz 1V p-p: (Y	0. 1%, 3.58-4.43 MHz	0.63V p-p to
Signal strength	1V p-p: (CVBS)	part) 0.3Vp- p:	1V p-p: S terminal(Y/C)	0.9 V p-p
Minimum /	Analog signal:	(PbPr/CbCr part) Analog signal:	Analog signal :	RGB signal: 0V/1.0V
maximum level input resistance	-2V/+2V	-2V/+2V	-2V/+2V	HV Signal : 0V/5.0V
	75 Ω <-30dB@5MHz	75Ω <-30dB@5MHz	75 Ω	75Ω <-30dB@5MHz
Return loss	<-30db@3MHZ	<-30db@3MHZ		<-30db@3MHZ
HDMI input				
Protocol	HDMI1.3a, DVI1.0, HDCP1.3			
Pixel bandwidth	Pixel bandwidth 165MHz, full digital			
Interface bandwidth Max. Resolution	2.25Gbps, full digital (Total 6.75Gbps, each color 2.25Gbps) PC: 1920x1200@60_24bit HDTV: 1920x1080P@60_36bit			
Clock Jitter	<0. 15 Tbit			
Risetime	<0.3Tbit (20%80%)			
Falltime	<0.3Tbit (20%80%)			
Signal type	HDMI 1.3a /DVI 1.0 define HDM/DVI-D full digital T.M.D.S. signal			
Interface	HDMI-A (Type A connector)			
Signal strength	T.M.D.S. 3.3V p-p			
Minimum / maximum level	T.M.D.S. 2.9V/3.3V			
Resistance	50 Ω			
Maximum DC offset error	+/- 15mV			
Recommended maximum input distance	Less than 15m under 1920x1080 with quality cable			



Interface	Input EDID	Use the system default EDID		
Signal type Digital Level type RS232 level Signal direction Two-way communication Baud rate Min:4800bps, Max:115200bps Data bit 8 bits Stop bit 1 bit Correction bit None Flow control None Level delay 500 ns Level peak 4/- 15V TR signal Interface Input/output: 4PIN-3.81mm phoenix Signal type Input; digital Output: digital Output level type P.L. level Wavelength 850nm Input level carrier frequency Link input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P@120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVII.0 protocol. PIXEL bandwidth Pixel bandwidth 255MHz, full digital Interface bandwidth Ac.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1080P@60_36bit; 3D Format: 1920x1080P@62_436bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Specification Power supply +12V Temperature -20° +70°C	RS-232	•		
Level type RS232 level	Interface	Input 3PIN-3.81mm		
Signal direction Baud rate Min:4800bps, Max:115200bps Data bit 8 bits Stop bit 1 bit Correction bit None Flow control Level delay 500 ns Level peak 4/- 15V IR signal Interface Input/output: 4PIN-3.81mm phoenix Signal type Input; digital Output digital Output digital Output evel type PLL level Wavelength 850nm Input evel carrier frequency 18 kKLz Link input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVII. 0 protocol. PIXEL bandwidth Pixel bandwidth Pixel bandwidth 25 MBz. 25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit; HDDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@4_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Signal type	Digital		
Baud rate Min:4800bps, Max:115200bps Data bit 8 bits Stop bit 1 bit Correction bit None Flow control None Level delay 500 ns Level peak +/-15V IR signal Interface Input/output: 4PIN-3.81mm phoenix Signal type Input: digital Output: digital Output digital Output level type PLL level Wavelength Rsonm Input level carrier frequency Input for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D _ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth Pixel bandwidth 225 MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDPC: 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply + 12V Temperature -20° + 70°C	Level type	RS232 level		
Data bit 8 bits Stop bit 1 bit Correction bit None Flow control None Level delay 500 ns Level peak +/- 15V IR signal Interface Input/output: 4PIN-3.81mm phoenix Signal type Input; digital Output: digital Output level type PLL level Wavelength 850nm Input level carrier frequency 38KHz Link input/output Interface RJ45 port HDBaseT protocol; full support HDM11.4 protocol 3D part, including support for all HDM11.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P @ 120Hz, backward compatible with HDM11.3 standard, HDCP1.3 protocol, DVII. 0 protocol. PIXEL bandwidth Pixel bandwidth 225 MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per labor) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Signal direction	Two- way communication		
Stop bit 1 bit Correction bit None Flow control None Level delay 500 ns Level peak +/- 15V IR signal Interface Input/output: 4PIN-3.81 mm phoenix Signal type Input; digital Output: digital Output level type PLL level Wavelength 850nm Input level carrier frequency 38KHz Link input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVII.0 protocol. PIXEL bandwidth Pixel bandwidth 225 MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1080P@60_36bit; 3D Format: 1920x1200P@60_24bit, HDTV: 1920x1080P@60_36bit; 3D Format: 1920x1080P@60_24bit, HDTV: 1920x1080P@60_36bit; 3D Format: 1920x1080P@60_36bit	Baud rate	Min:4800bps, Max:115200bps		
Correction bit None Flow control None Level delay 500 ns Level peak +/- 15V IR signal Interface Input/output: 4PIN-3.81 mm phoenix Signal type Input; digital Output: digital Output level type PLL level Wavelength 850nm Input level carrier frequency Ink input/output Interface RJ45 port RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P@ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVII.0 protocol. PIXEL bandwidth Pixel bandwidth 225 MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Data bit	8 bits		
Flow control None	Stop bit	1 bit		
Level delay 500 ns Level peak +/- 15V IR signal Interface Input/output: 4PIN-3.81mm phoenix Signal type Input; digital Output: digital Output level type PLL level Wavelength 850nm Input level carrier frequency Ink input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVII. 0 protocol. PIXEL bandwidth Pixel bandwidth 225 MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Correction bit	None		
Level peak +/- 15V IR signal Interface Input/output: 4PIN-3.81 mm phoenix Signal type Input; digital Output: digital Output level type PLL level Wavelength 850nm Input level carrier frequency 38KHz Link input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDDV: 1920x1200P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Flow control	None		
IR signal Interface Input/output: 4PIN-3.81mm phoenix Signal type Input; digital Output: digital Output level type PLL level Wavelength 850nm Input level carrier frequency Link input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P@120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVII. 0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit, HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Level delay	500 ns		
Interface Input/output: 4PIN-3.81mm phoenix Signal type Input; digital Output: digital Output level type PLL level Wavelength 850mm Input level carrier frequency 38KHz Link input/output Interface RJ45 port HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Specification Power supply +12V Temperature -20° +70°C	Level peak	+/- 15V		
Signal type Input; digital Output: digital Output level type PLL level Wavelength 850nm Input level carrier frequency Ink input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVII.0 protocol. PIXEL bandwidth Pixel bandwidth 225 MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Specification Power supply +12V Temperature -20° +70°C	IR signal			
Output level type Wavelength 850nm Input level carrier frequency Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply + 12V Temperature -20° +70°C	Interface	Input/output: 4PIN-3.81mm phoenix		
Wavelength Input level carrier frequency 38KHz Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply + 12V Temperature -20° +70°C	Signal type	Input; digital Output: digital		
Input level carrier frequency Link input/output Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1.0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Output level type	PLL level		
Support Protocol HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital	Wavelength	850nm		
Interface RJ45 port HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	=	38KHz		
HDBaseT protocol; full support HDMI1.4 protocol 3D part, including support for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 225MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Link input/output			
for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard, HDCP1.3 protocol, DVI1. 0 protocol. PIXEL bandwidth Pixel bandwidth 225 MHz, full digital Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Interface	RJ45 port		
Interface bandwidth 6.75bps (RGB:2.25 Gbps/per lane) Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	Support Protocol	for all HDMI1.4 agreement in the mainstream 3D display mode, but does not include 3D_ 1080P @ 120Hz, backward compatible with HDMI1.3 standard,		
Normal-PC: 1600x1200P@60_24bit, HDPC: 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply +12V Temperature -20° +70°C	PIXEL bandwidth	Pixel bandwidth 225MHz, full digital		
Max. Resolution 1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit; 3D Format: 1920x 1080P@24_36bit Signal type HDBaseT protocol defined in the high-speed differential signal Max. input/output distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply + 12V Temperature -20° +70°C	Interface bandwidth	6.75bps (RGB:2.25 Gbps/per lane)		
Max. input/output distance Max. $100m \text{ with } 1920x1080@60\text{Hz with CAT5E/CAT6/CAT7}$ Specification Power supply $+12V$ Temperature $-20^{\circ} +70^{\circ}\text{C}$	Max. Resolution	1920x1200P@60_24bit; HDTV: 1920x1080P@60_36bit;		
distance Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7 Specification Power supply $+12V$ Temperature $-20^{\circ} +70^{\circ}C$		HDBaseT protocol defined in the high-speed differential signal		
Power supply $+12V$ Temperature $-20^{\circ} +70^{\circ}C$		Max. 100m with 1920x1080@60Hz with CAT5E/CAT6/CAT7		
Temperature -20° +70°C	Specification			
	Power supply	+ 12V		
Humidity 10% ~90%	Temperature	-20°~ +70°C		
	Humidity	10% ~90%		



HE10/HE7

HDBaseT extender for 100m/70m



Overview

The HE10 / HE7 HDMI Extender over cat5e/cat6 is to extend the HDMI signal over long distances to a compatible display. It is designed to convert HDMI signal to standard HDBaseT signal and transmit by Cat5e/6 cable. It also transmit Bi-directional Infrared signal together with the HDMI signal, capable of controlling the source in the device side out to 100 meters or 70 meters, or from source to device, RS232 pass through makes it more convenient to be controlled.

Features

- Allow HDMI signal/IR transmit up to 100 meters or 70 meters over Cat5e/6 cable
- HDMI signal from 1080P to 4Kx2K, 3D video format support, HDCP compliance
- IR signal/RS232 pass through together with HDMI over Cat5e/6 cable bi-directionally for remote control Ultra Light&thin case design for easy installing

System Diagram





Specification

HDMI video interface	НЕ7	HE10		
Protocol support	HDMI1.4, HDCP1.3, EDID1.4			
Pixel bandwidth	330MHz			
Interface bandwidth	10.2Gbps			
Maximum resolutions	1900x1200@60Hz, 3840X2160@30Hz HDTV: 1920x1080P@60Hz; BD: 4Kx2K@30Hz			
Signal type	HDMI 1.4 / T.M.D.S.			
IN/OUT interface	HDMI type A, female; HDBaseT			
Transmission Distance	1080P video signal can be transmitted up to 70m by CAT5e/6	1080P video signal can be transmitted up to 100m by CAT5e/6		
	4K vide signal can be transmitted up to 40m	4K vide signal can be transmitted up to 70m		
Signal amplitude	T.M.D.S. +/- 0.4Vpp			
Min/Max Voltage	T.M.D.S. 2.9V/3.3V			
Input impedance	100Ω			
Dimensions	135mmX75mmX15mm			
Control interface				
Serial	RS232 (3PIN 3.5mm)			
Baud	110- 115200bps			
IR control	IR (3.5MM)			
IR frequency	38K			
ETHERNET	RJ45			
Power supply	12V DC			
Maximum dissipation	8.3W			