

TK-HD100 HD extender

(HDBaset 100M)

1th Sketch

With rising consumption and demand for high quality HD content, end users are more interested in HD video experience extends to all corners. Users who want to find a way, TVs and other display devices and Blu-ray DVD players and entertainment devices connected to HD multimedia content of the communication. Malls, security, airports, public areas such as LCDTV, TV wall, LED screen display device, where HD display devices often need a long cable and complex wiring, DVI and HDMI obviously does not meet the length and cost of demand, now commonly used in analog video and audio HD video transmission also has been unable to meet demand.

And some of the existing technologies in terms of bandwidth limitations, cannot support uncompressed video. HD multimedia content in all areas of audio and video communication market and the inadequacies of existing technologies to promote electronics limited development, production HD digital connection standard for TK-HD series extenderers, which can extend the uncompressed HD multimedia content transmission distance increase their range, simplified installation, and reduce overall system cost.

2th product introduction

TK-HD100 is a high-performance HDMI Image transmission devices, its main feature is a network cable HDMI Images without compression, delay-free transmission 100 M distance, maximum support 4k*2k ultra high resolution transmission while supporting IR Bi-directional transmission of infrared remote control signals and RS-232 Serial bi-directional transmission of the signal.

HD signal extenders usually require compression of the signals at the extenderer can transmit signals through cable, HD video signal through the receiver decodes the signal into. As chip bandwidth issues that need larger image signal compression, which leads to sharp decline in the quality of the image as a whole and become very unclear. And preparation and decoding process takes a long time, it may lead to transfer to Terminal than the original screen image has a long delay.

By TK-HD100 Unique image processing technology for HD video transmission, to full HD video image without compression, transfer without delay to display terminals. TK-HD100 HD transmission advantage is not just the absence of compression, HD video signal extended without delay or extend the synchronization RS-232 serial port signals and IR infrared remote control signals, users can use a network cable conveniently packaged set of

multiple signal transmission, Reduced to a large extent user projects needed to construct a variety of different cable problem, but also greatly reduce the costs associated with the user.

3th main functions

- 3.1, Supports full HD 1080p@60Hz,3D , 4K × 2K/30HZ HDMI Signal transmission;
- 3.2, 1080p Full HD signal through Cat6a Lines can be extended 100 M;
- 3.3, The use of HDBaset Technical support HDMI Image signal extended without compression and without delay;
- 3.4, Support bi-directional infrared signals back to the serial port RS-232 Two-way signal transmission;
- 3.5 , Support HDCP 、 CEC 、 24 -Bit color depth;
- 3.6 , Support uncompressed audio LPCM And compressed audio DTS-HD,Dolby True HD ;
- 3.7 , The use of POC Power supply, just as one end of the extenderer or the receiver for 12V Power supply;

4th product appeara



5th System topology



6th product parameters

Project	Parameter description		
HDMI signal	HDMI1.4, HDCP2.2, support for the CEC, 24-bit color depth, 4Kx2K		
Transfer Protocol	HDBaseT		
Supported resolution	480i/480P/576i/576P/720P/1080i/1080P/3D/4Kx2K		
Audio	LPCM,DTS-HD,Dolby True HD		
Network cable	CAT5E、CAT6、CAT6A、CAT7		
Transmission distance	CAT5e/CAT6	100m	Up to 1080P60Hz 36bpp
	CAT6a/CAT7	70m	1080p@60Hz 48bpp,1080p60Hz 3D,4Kx2K 30Hz
Infrared return	Support 20-60kHz broadband infrared remote control, support bi-directional infrared transmission		
RS-232 Transmission	Supports serial RS-232 bi-directional transmission		
Power supply	DC12V/ 3 A * 1pcs		
Power consumption	No more than 8w		
Product size	101 (L)× 79 .5(W)×2 6 (H)mm *2pcs		
Body material	Metal		
Net weight	TX: 250 g RX: 250 g		
Color	Titanium Crystal grey		