

VT-HDBXT-RX HDBaseT Receiver

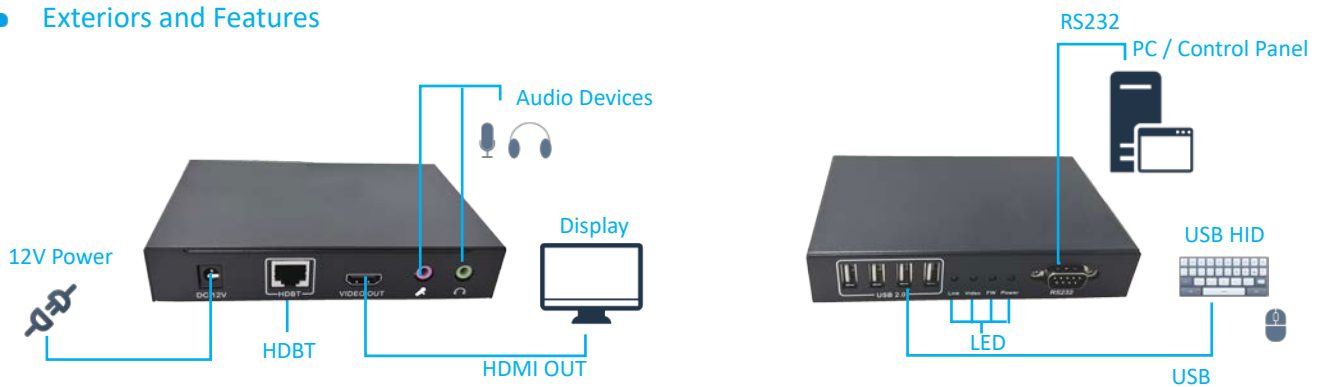


Product Brief

VT-HDBXT-RX is a high-performance HDBaseT receiver specifically designed for professional applications requiring long-distance, high-quality audio and video signal reception. This receiver is equipped with an HDMI output interface with EDID management, supporting ultra-high-definition video signals up to 4K/2K @30Hz (YCbCr 4:4:4) or 4K/2K @60Hz (YCbCr 4:2:0). Via a single Cat5e or higher-grade network cable, it reliably receives audio and video signals from HDBaseT transmitters over long distances, with a maximum video data rate of 5.3Gbps.

The receiver integrates a RS232 serial port for connecting and controlling display devices or peripheral systems. It provides four USB 2.0 DFP Type-A interfaces to support the expansion of USB peripherals, and a built-in debug UART interface for convenient product maintenance and debugging. Additionally, it provides a microphone interface and a headphone interface for external audio connection. The receiver is highly suitable for use in scenarios such as medical imaging, surveillance systems, digital signage, conference room, home theater, or large venue, ensuring a simple and efficient setup for all your connectivity needs.

Exteriors and Features



Long distance HDMI extension, supporting reception up to 150 meters



Up to 4Gbps HDBaseT traffic rate



EDID adjustment mechanism for HDMI 2.0



4K/UHD video/audio signals supported



Uncompressed data without latency

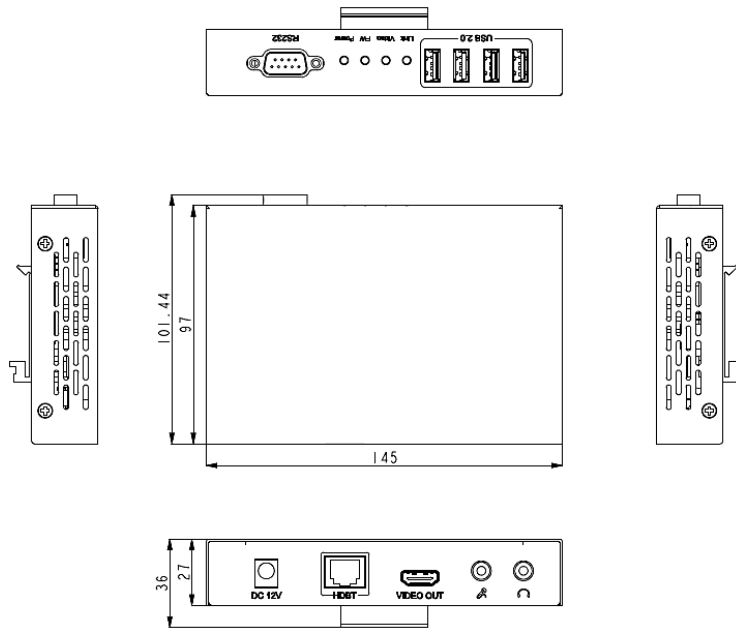


RS232/USB/UART for expansion

VT-HDBXT-RX HDBaseT Receiver Datasheet

VT-HDBXT-RX		
Video	Interface	1 × HDMI 1.4/2.0 output
	Max. resolution	4K/2K @30Hz (YCbCr 4:4:4)
		4K/2K @60Hz (YCbCr 4:2:0)
	Max. traffic rate	≤ 5.3Gbps (HD video), >5.3Gbps (UHD video)
EDID adjustment	EDID adjustment for HDMI 2.0 at pixel clock higher than 340MHz	
Audio	Interface	1 × HDMI 1.4/2.0 output
I/O	Serial port	1 × RS232
	USB	4 × USB 2.0 DFP Type-A
	Audio	1 × 3.5mm Microphone jack
		1 × 3.5mm Headphone jack
Debug	1 × Built-in debug UART	
System Control	LED Indicator	1 × Power indicator
		1 × Firmware indicator
		1 × Video indicator
		1 × Link indicator
Power	Input	12V DC, 1 × DC jack
	Consumption	~6W (full load)
Mechanical	Dimensions	145mm × 101.4mm × 36mm
	Enclosure	Metal
	Cooling mode	Fanless, Heat sink
	Installation	DIN rail mount
Environmental condition	Temperature	Operating: 0°C ~ +50°C
		Storage: -20°C ~ +60°C
Humidity	Operating and storage: 10%-85% RH (Non-condensing)	
Compliance	Certification	FCC, CE

Product Outlines



Ordering Information

Ordering No.	Description	I/O
VT-HDBXT-RX	HDBaseT receiver	RS232, USB-A, microphone, headphone, HDMI output

Packing List	
VT-HDBXT-RX	1

Optional Accessories	
12V/2A DC power adapter	1
AC power cord	1

Since its establishment in 2002 by two Silicon Valley entrepreneurs, Vantron Technology has been at the forefront of the connected IoT devices and IoT platform solutions. Today, Vantron boasts a global customer base that includes many Fortune Global 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays, and BlueSphere cloud platforms.

With over 20 years of experience in R&D of intelligent edge hardware, Vantron has provided users with diverse embedded solutions featuring ARM and X86 architectures. Its offerings range from Linux, Android to Windows, from embedded to desktop level, and from gateways to servers. In addition, it provides users with system trimming, driver transplantation and more to cater to the unique needs of its users.