Simply Better Connections

VE813A

4K HDMI HDBaseT Extender with ExtremeUSB® (4K@100m) (HDBaseT Class A)

The VE813A HDMI HDBaseT Extender is an HDMI and USB Extender that supports HDBaseT and patented ExtremeUSB® technology. The VE813A can extend HDMI and USB 2.0 signal up to 100 meters from the HDMI source using a single Ethernet cable. The VE813A supports HDMI features such as 3D, Deep Color, 4K, CEC and HDCP. It is equipped with USB connectors that provide touch panel control and file transfer functionality. The extender is also great for synchronizing files and folders between portable and desktop computers. The superior display capability makes VE813A ideal for medical imaging and digital signage.

Features

- Implements HDBaseT extension technology using only one Cat 5e/6/6a cable that connects the transmitter and receiver
- Anti-jamming – high quality video transmissions via HDBaseT technology that resists signal interference
- Supports Dolby True HD and DTS HD Master Audio
- ExtremeUSB® – supports transparent USB 2.0 signals and true plug-and-play (no software or drivers required)
- USB 2.0 Support* – connects devices such as keyboard, mouse, audio, flash drive, printer, touch panel, USB 1.1 web cameras and other USB devices which require moderate amounts of bandwidth
- Built-in 8KV/15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)
- Works with all major operating systems: Windows®, OS X®, and Linux®
- Rack-mountable

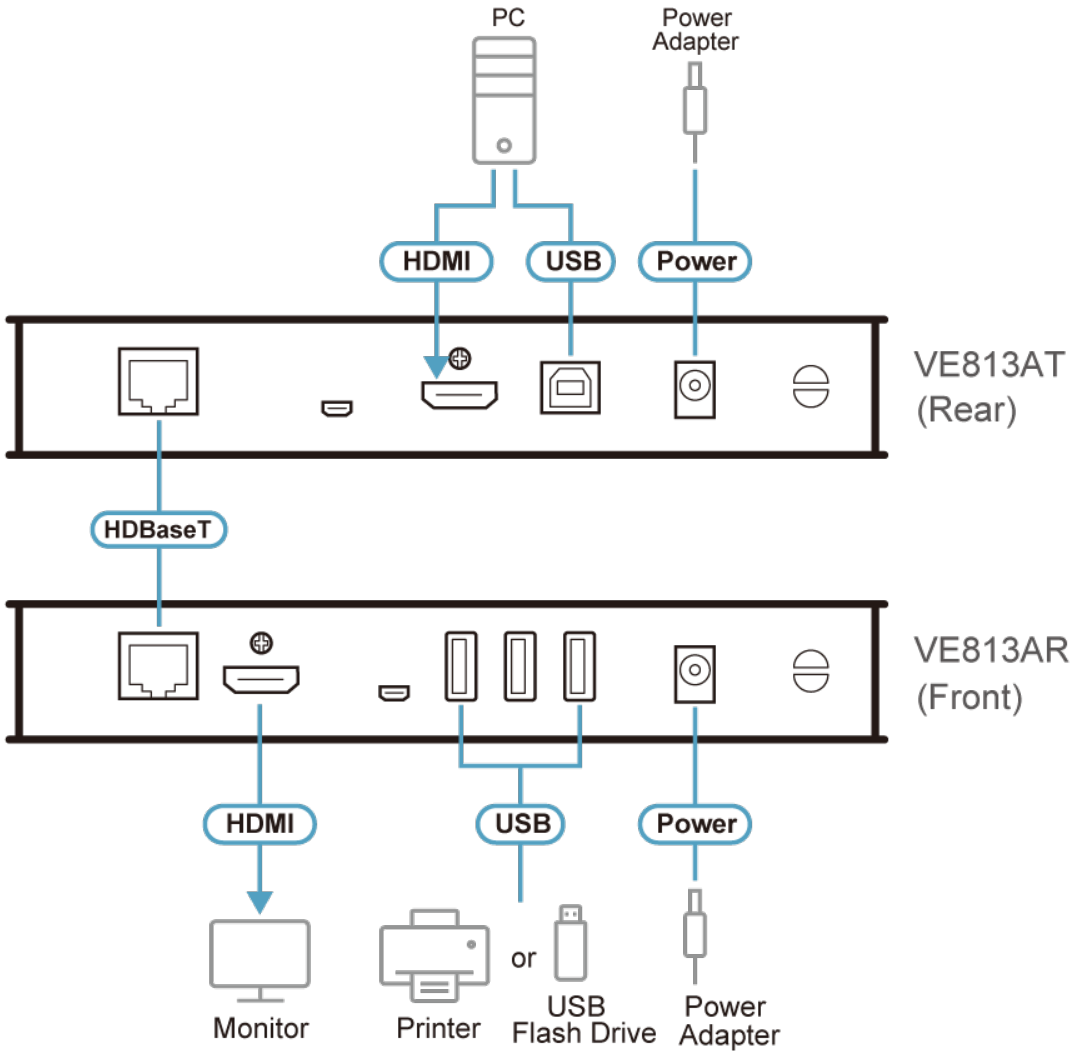
  *Note: The VE813A supports a maximum combined USB transfer rate of 40 Mbps for attached USB devices

Specification

Function	VE813AR	VE813AT
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz	Up to 340 MHz

Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	-	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	-
Power Consumption	DC5V:5.75WBTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.	DC5V:5.75WBTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Physical Properties		
Weight	0.62 kg (1.37 lb)	0.61 kg (1.34 lb)
Dimensions (L x W x H)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)
Housing	Metal	Metal
Carton Lot	5 pcs	5 pcs
Control		
USB Channel	3 x USB Type A Female Transfer Rate: USB 2.0 (Up to 40 Mbps)	1 x USB Type B Female Transfer Rate: USB 2.0 (Up to 40 Mbps)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Environmental		
Operating Temperature	0-40°C	0-40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	

Diagram



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