

## 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

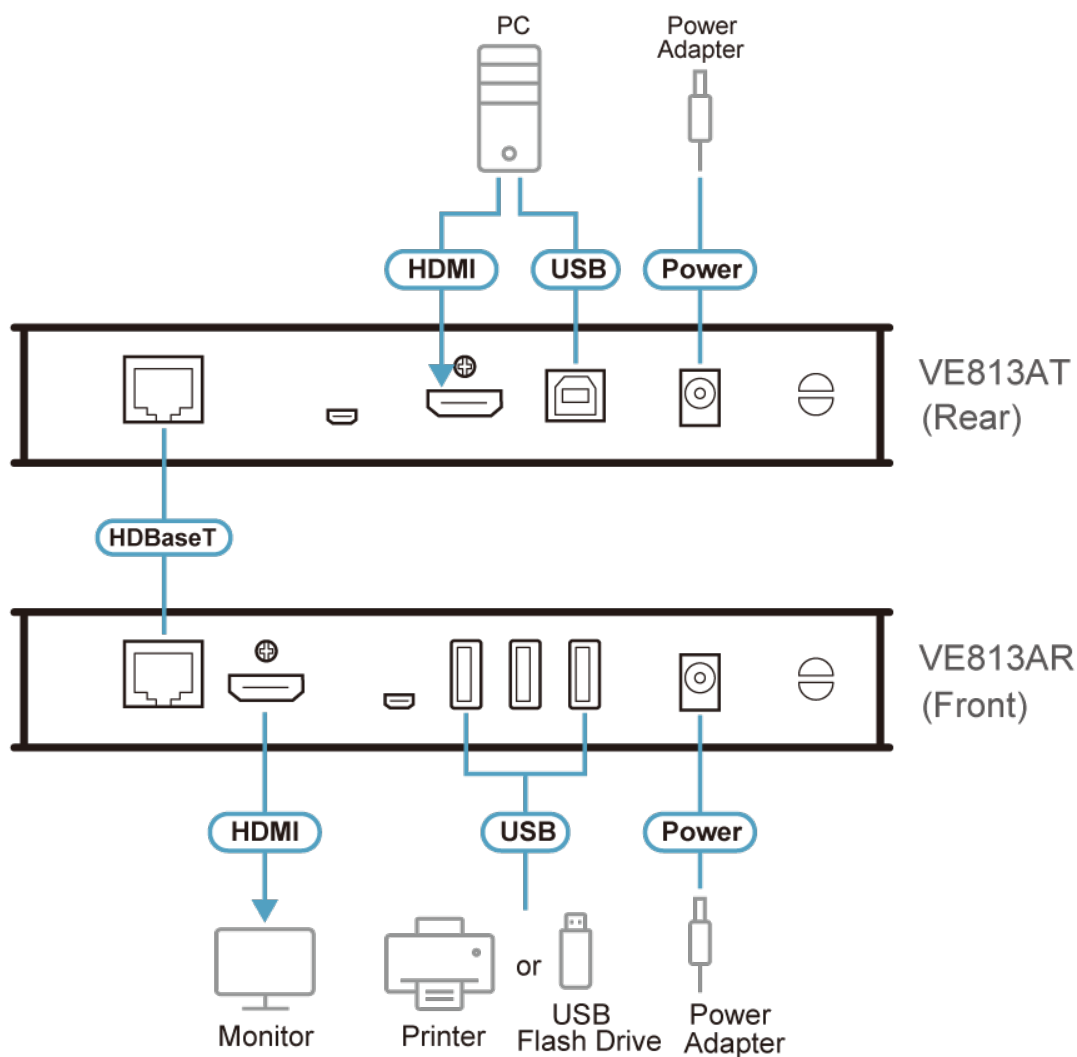
\*Note: The VE813A supports a maximum combined USB transfer rate of 40 Mbps for attached USB devices

### 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)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                                                              | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                                                              |
| Max. Resolutions / Distance | Up to 4K@70m (Cat 5e/6) / 100m (cat 6a);<br>1080p@100m<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                                                                               | Up to 4K@70m (Cat 5e/6) / 100m (cat 6a);<br>1080p@100m<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>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<br><br>Note:<br>● The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. | DC5V:5.75WBTU/h<br><br>Note:<br>● The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>● 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<br>(7.17 x 4.57 x 1.13 in.)                                                                                                                                                                                             | 18.20 x 11.61 x 2.87 cm<br>(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<br>Transfer Rate: USB 2.0 (Up to 40 Mbps)                                                                                                                                                                                 | 1 x USB Type B Female<br>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



**ATEN International Co., Ltd.**

3F., No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan  
 Phone: 886-2-8692-6789 Fax: 886-2-8692-6767  
 www.aten.com E-mail: marketing@aten.com



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