

## Hall Technologies VERSA-4K-R 4K Video and USB Extender (Receiver) for Point-to-Point or Matrix over IP

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| <b>System</b>         | Supports   | Device Naming, IP Control<br>Build in WEB Server with Instuitive User Interface Front panel with 16x2 Character display for System configuration<br>IR Remote Control                                      |
|                       | Sender   | Supports Independent routing   |
|                       | Receiver   | Built OSD generator, which can display custom text and pictures<br>Built in Scalar with can support:<br>low resolution <=> High Resolution timing conversion<br>Interlaced <=> Progressive Mode conversion |
|                       | Video Wall Support   | Wall Size up to 16x16<br>Bezel and Gap Compensation<br>Pixel Wise Panning<br>Image Rotation , Mirroring, and Stretch<br>Video Pause and Black Out  |
| <b>Network</b>        | Max Distance   | 120m UTP   |
|                       | Bandwidth  | 850Mbps +- 20Mbps<br>*Varies with video pattern, USB activity, and WEB-GUI activity  |
|                       | Casting  | Multicast (Groups 0 -9999), Unicast<br>Supports VLAN Switching   |
|                       | Supports   | Bit rate and bandwidth Control<br>Static, DHCP and Auto IP (Zero Config)<br>IGMPV2<br>1500 or 8000 MTU<br>*Recommended 8K (8000MTU) for 4K video   |
| <b>Video</b>          | Sender Input   | Up to 4K@60 4:4:4, HDMI 2.0a, HDR, HDCP2.2   |
|                       | Sender Loop out  | Up to 4K@60 4:4:4, HDMI 2.0a, HDR, HDCP2.2   |
|                       | Receiver Output  | Up to 4K@30 4:4:4, HDMI 2.0a, HDR, HDCP 2.2  |
| <b>Audio</b>          | HDMI Audio   | 2Ch, 5.1 Ch, 7.1 Ch LPCM<br>5.1Ch, 7.1Ch NLPCM   |
|                       | Supports   | HDMI Audio Extraction (2Ch LPCM 32Khz -96Khz)  |
| <b>Video Over IP</b>  | Video Codec  | Proprietary Visually Lossless Video Codec<br>Supports Quality Control  |
|                       | Latency  | 1 Frame (< 30ms)   |
|                       | Supports   | Video Snapshot<br>Anti-Dithering V3, Frame Rate Control  |
|                       | Sender Analog Audio  | Line In, Line Out for Audio Over IP<br>Supports HDMI Audio Embedding   |
|                       | Receiver Analog Audio  | Mic In, Line Out for Audio Over IP<br>Supports HDMI Audio De-Embedding   |
| Supports              | Analog Volume Control<br>Bidirectional Audio extension in Unicast mode |  |
| <b>USB Over IP</b>    | USB Extension  | up to 4xUSB 2.0 Downstream Devices<br>USB 1.1 for Keyboard and Mouse Extension   |
|                       | Supports   | USB Class and Device Filtering<br>Touch Screen Devices   |
| <b>RS-232 Over IP</b> | RS-232   | 300 - 115200 bps with Data bit, parity and Stop bit settings   |
|                       | Supports   | Bidirectional Pass-through Mode (Dump redirection)<br>Guest Mode (Serial Over IP over dedicated telnet port)   |
| <b>IR Over IP</b>     | IR   | Universal IR   |
|                       | Supports   | Bidirectional IR Pass-through Mode<br>Guest Mode (Software Decoding over dedicated telnet port)  |