

iMatrix HU44

4K60 HDMI 4x4 Seamless AV and USB Matrix Switcher

Design Spec V1.0

Note: this design spec is for system integrators

1. HARDWARE

- The matrix shall have 4x HDMI 2.0 4K60Hz AV input ports and 4x HDMI 2.0 4K60Hz AV output ports.
- The matrix shall have 1x USB C 4K60Hz AV input port, shall support at least 60W PD charging.
- The matrix shall have 4x USB 3.0 A device ports.
- The matrix shall have 4x USB 3.0 B Host ports.
- The matrix shall have 1x USB 3.0 C Host ports.
- The matrix shall have 1x TCP/IP port.
- The matrix shall have RS232 and IR ports.
- The matrix shall have 4x 3-pin Euro block Line audio inputs and 4x 3-pin Euro block Line audio outputs.
- The matrix shall have front screen to show device information.
- The matrix shall have front panel buttons.

2. FEATURES

- The matrix shall support 4x4 **HDMI matrix**
- The matrix shall support 4x4 **USB matrix**
- The matrix shall support 8x8 **audio matrix**
- The matrix shall support HDMI2.0, **4K@60Hz** 4:4:4 & HDCP2.2.
- The matrix shall support Video **seamless** switching.
- The matrix shall provide up to **60W PD** charging for USB-C.



- The matrix shall support **USB-C 4K60Hz DP1.4** AV Input.
- The matrix shall support USB-C and HDMI **auto detection** and **auto switching**.
- The matrix shall support any **USB A device switching** to any 4 of 5 USB hosts.
- The matrix shall be compatible with USB videobar, camera, speaker, microphones with brands INFOBIT, Logitech, Poly, Yealink, Jabra and more.
- The matrix shall support **wired BYOM (Bring Your Own Meeting)** to switching among 4 of 5 USB hosts.
- The matrix shall support analog audio **embedding & de-embedding** out.
- The matrix shall support control via front panel buttons, IR remote, RS-232 or TCP/IP (**WEB-GUI**).
- The matrix shall support **Web GUI** control.
- The matrix shall support audio LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™
- The matrix shall support audio **frequency response 20Hz-20kHz**
- The matrix shall support **THD+N <0.05%**
- The matrix shall support **SNR >80dB**
- The matrix shall support **separated presets** saving or recalling for Video switching, USB switching and Audio switching.
- The matrix shall support **CEC** to control displays ON/OFF.
- The matrix shall support **customized EDID** settings.
- The matrix shall support standard **VESA resolutions** and **user-defined resolutions**.

3. WARRANTY

The matrix shall be with at least 3 years warranty

The matrix shall support at least 2 years warranty expansion