

iWall M4

Modular Video Wall Controllers

Design Spec V1.0

Note: *this design spec is for system integrators*

1. CHASSIS HARDWARE

- The controller shall have 2.5U, 4U, 6.5U or 11U size chassis
- The controller shall support max. 1080P FHD inputs/outputs 16x9, 24x20, 36x36 and 76x72
- The controller shall be FPGA and pure hardware based
- The controller shall not have Microsoft Windows OS
- The controller shall support redundant PSU (Power Supply Unit)
- The controller shall support adaptive input/output slots
- The controller shall have front 4.3" or 5" touch screen

2. TOUCH SCREEN

- The controller front panel shall have one 4.3" or 5" touch screen
- The touch screen shall display input to output correspondence relations
- The touch screen shall support presets (scenes) recalling
- The touch screen shall view Baud Rate, IP address, Subnet Mask, Gateway and MAC address
- The touch screen shall edit Baud Rate, IP address, Subnet Mask, Gateway, DHCP
- The touch screen shall support Buzzer sound ON/OFF
- The touch screen shall support DHCP ON/OFF
- The touch screen shall support Languages switching

3. FEATURES & FUNCTIONS

- The controller shall support both LCD and LED videowalls
- The controller shall support video windows arbitrary layout, stretching, scaling, roaming and picture in picture
- The controller shall support 4 windows (layers) on each display
- The controller shall support max. 4K60Hz (4096x2160) 4:4:4 signal input
- The controller shall have both HDMI and DP ports on one same card.
- The controller shall support 1920x1200/60Hz signals input
- The controller shall support 1920x1080/60Hz signals output
- The controller shall support 3G-SDI inputs
- The controller shall support multiple video wall groups (up to 4x video walls)
- The controller shall support H.264/H.265 signal preview and monitoring
- The controller shall support high resolution background image
- The controller shall support scrolling text function
- The controller shall support text overlay on the input source
- The controller shall support RS232, IP and Web GUI controls
- The controller shall support input signals renaming, cropping, text overlay.
- The controller shall support Full HD, 4K UHD inputs and Full HD outputs
- The controller shall support multiple formats inputs and outputs such as HDMI, DisplayPort, DVI, IP streaming
- The controller shall support max. 76X72 inputs x outputs
- The controller shall support windows arbitrary layout, stretching, scaling, roaming and picture in picture
- The controller shall support presets save, recall and auto-cycle
- The controller shall support user's role management
- The controller shall support IP camera decoding and streaming
- The controller shall support videowall ON/OFF control
- The controller shall support Bezel Compensation
- The controller shall support drag-and-drop video layers operation
- The controller shall support firmware upgrade
- The controller shall be with pure-hardware design, without Windows OS vulnerability, virus risks, bluescreen errors



- The controller shall support seamless switching input signals
- The controller shall support adaptive input/output slots

4. SOFTWARE

- The software shall support video wall layouts modification
- The software shall support scrolling text edit including fonts, size, color and background
- The software shall support background picture uploading
- The software shall support customized resolution edit
- The software shall support ON/OFF previewing of signals
- The software shall support Default Layers and one-click to enable
- The software shall support IP camera streaming decoding setup
- The software shall support arbitrary presets/ scenes modifications including save, recall, auto-cycle or delete
- The software shall support input signal rename
- The software shall support Offline layouts edit and Publish
- The software shall support Bezel Compensation edit
- The software shall support ON/ OFF videowall screen function
- The software shall support multiple user's role management
- The software shall support password protection
- The software shall support configuration file import and export
- The software shall support drag-and-drop signal video windows operation
- The software shall support video window re-position, overlay orders change, re-size, lock or unlock

5. WARRANTY

The controller shall be with at least 3 years warranty

The controller shall support at least 2 years warranty expansion