geratech®

EGE-VWC2-WL-XU

Hardware-Based Audio-Supported Modular Video Wall Controller

Overview

EGE-VWC2-WL-XU is a high-performance video processing server without any operating system. Delivers high quality signal images and real time video as it adopts large-capacity high-speed FPGA array and processing mechanism of cross-point data routing and exchange. Thanks to its hard-ware based structure, it features extremely high stability, fast startup speed and supports 365x24 hours of uninterrupted and stable operation. It can be widely used in security monitoring, exhiitiins, military command, education and scientific research, goverment announcements, commercial displays and other industires.

Features

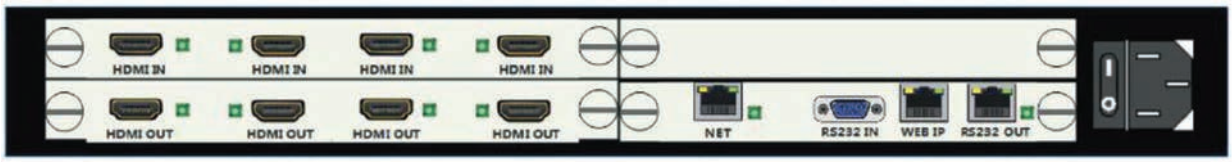
- Max 4 layers per screen (this function is possible when output number decreases to half, if it is not supports max 2 layers per screen)
- Maximum 32 displays with 4RU
- Maximum 16 full HD video sources with 4RU
- Side-by-side, overlap and picture in picture image positioning
- Output mapping on software, no need for fixed cable to display correspondence
- Seamless switching between sources
- Arbitrary cropping and content enlargement for the input image
- Bezel compensation for displays
- Automatic detection of input signals indicates the I/O status on the control software
- Built-in matrix switcher function, any source image can be routed to any display
- Supports the pre-operation mode to avoid possible wrong operation
- Total 32 preset modes to be recalied in future
- Free-easy to use configuration and control sofware
- Web Browser control via cross platform from Windows, iOS, MacOS, Android, Linux and others.

Optional Functions

- DVI I/O board avaible
- 4K HDMI up to 3840x160 resolution
- Embedded HDMI audio from any source can be routed to each HDMI output
- OSD text on HDMI input source
- Vector subtitle display board

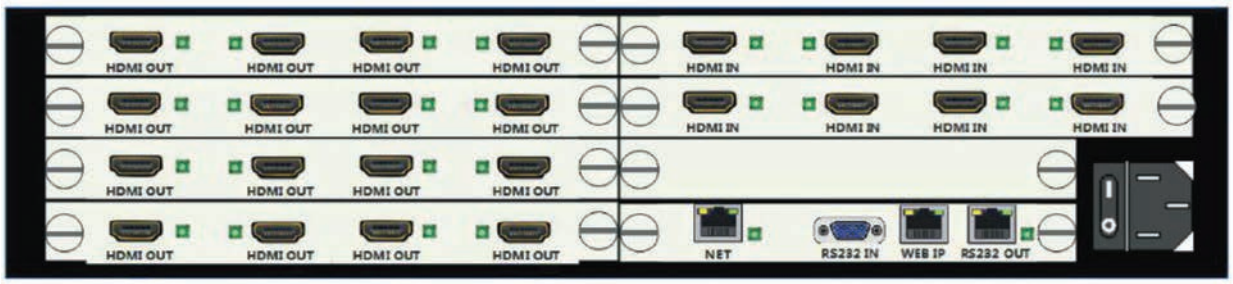
1U Chassis

1 input slot, 1 output slot, chassis dimension 437x250x44.5mm, weight <= 5 KG, power consumption <= 50W



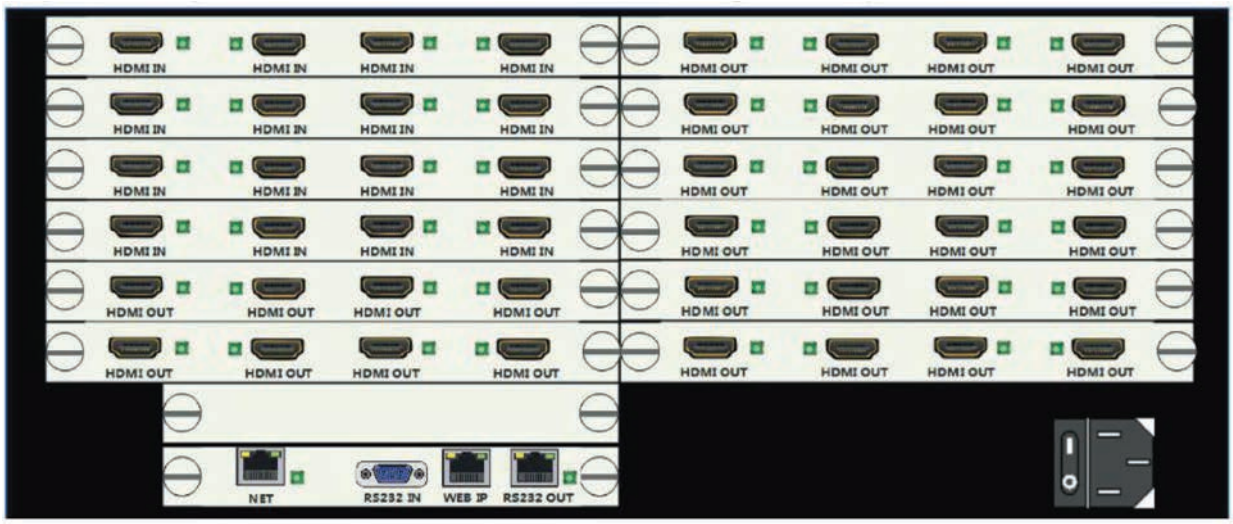
2U Chassis

2 input slot, 4 output slot, chassis dimension 437x300x89mm, weight <= 10 KG, power consumption <= 100W



4U Chassis

4 input slot, 8 output slot, chassis dimension 437x300x178mm, weight <= 20 KG, power consumption <= 200W

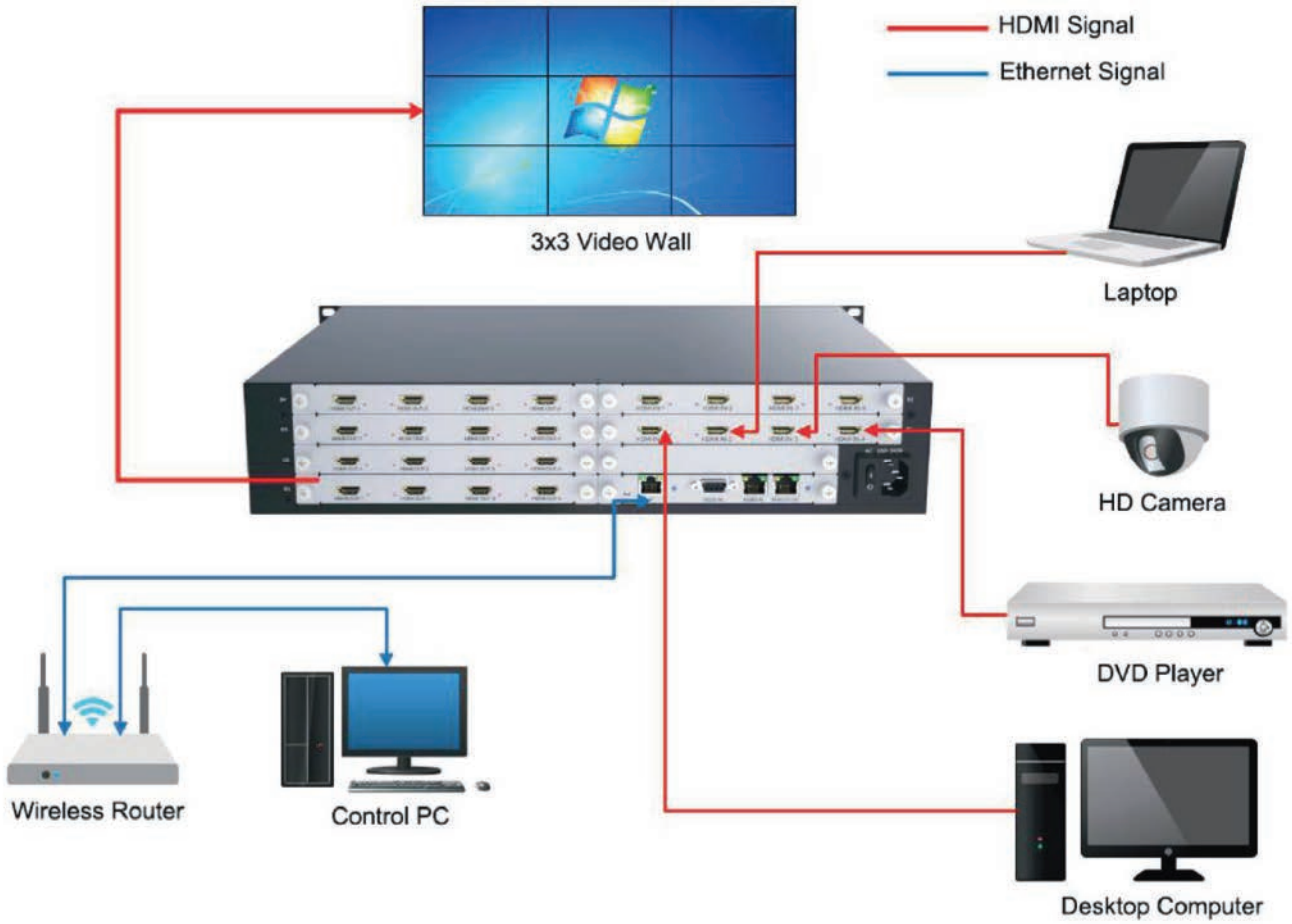


SPECIFICATION

Inputs		
Type	**Qty**	**Parameters**
HDMI input board (Basic)	Optional	4 channels of HDMI Type A (Female), Suppport HDMI1.3 and HDCP, max output resolution 1920*1080@60Hz;
DVI input board	Optional	4 channels of DVI， 24+5 Pin, DVI-I (Female, Digital Signal Only) , Max output resolution 1920*1080@60Hz;
HDMI input board (Enhanced)	Optional	4 channels of HDMI Type A (Female), Suppport HDMI1.3 and HDCP, max output resolution 1920*1080@60Hz; Support embedded audio inside HDMI; support OSD on HDMI source, OSD text font type and size , background and foreground color can be adjusted by control software;
4K HDMI1.4 input board	Optional	1 channel of HDMI1.4 input, support HDCP, max input resolution 3840*2160@30Hz, down-wards compatible;
Outputs		
Type	**Qty**	**Parameters**
HDMI output board	Optional	4 channels of HDMI Type A (Female), Suppport HDMI1.3 and HDCP, max output resolution 1920*1080@60Hz; supports embedded HDMI audio output when input card supports audio in;
DVI output board	Optional	4 channels of DVI , 24+5 Pin, DVI-I (Female, Digital Signal Only), Max output resolution 1920*1080@60Hz;
Control		
Type	**Qty**	**Parameters**
RS232	1	DB 9 Female, Connect with control PC or the third-party control system
RJ45 (IP)	1	10/100M, connect with Ethernet switch or control PC
RJ45	1	Loop-out of RS232, used to control ON/OFF of video wall display

Chassis							
Type	Qty	Input Slot	Output Slot	MCU Slot	Max In	Max Out	Remark
1U-C04	PCS	1	1	1	4	4	
2U-C08	PCS	2	4	1	8	16	
4U-C16	PCS	4	8	1	16	32	
Power Supply	AC100~240V, 50/60Hz						
Working Temperature	0-50℃						
Working Humidity	10%-90% non-condensation						

DIAGRAM


HDMI Signal
Ethernet Signal
3x3 Video Wall
Laptop
HD Camera
DVD Player
Wireless Router
Control PC
Desktop Computer

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