

Vanguard Video Wall Controller

Guardian+VW2-20



- * 19" standard 7U ATCA industry box
- * Easy and flexible configuration with pluggable card module design
- * High speed passive rear panel design, reliable and stable
- * FPGA array framework, built in ultrahigh bandwidth switch matrix, high image processing capacity, flexible data exchange
- * PCI-E bus, high system bandwidth
- * Support analog/digital video signals input and matrix output
- * Support non-compressed digital signal encoding output
- * Support 4K/30fps video inputs and 4K/30fps outputs
- * Maximum 320ch@1080P or 1280ch@D1 signal decoding (full configured)
- * Support one video source or one output 1-360°rotation (Customized)
- * Remote cast analog/digital video onto the video-wall
- * Redundant power optional and smart temperature-controlled fan
- * Remote reboot/upgrade/default setting and other operations



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System	
Main Processor	Intel X86Baytrail Microprocessor
Operating System	Embedded LINUX
Bus	PCI-E
Slot	20 service card slots
Mainframe	Power module (redundant power optional), main control board, control board, PCI-E bus rear panel, smart temperature controlled fan
Video Input Card	Max. 20
Video Output Card	Max. 20

Video Input		
HDMI-I	HDMI-I2	2ch HDMI @4K
	HDMI-I4	4ch HDMI @1080P/720P/UXGA/SXGA+/SXGA/SXG/SVGA/VGA
	HDMI-I8	8ch HDMI @1080P/720P/UXGA/SXGA+/SXGA/SXG/SVGA/VGA
DVI-I	DVI-I4	4ch @1080P/720P/UXGA/SXGA+/SXGA/SXG/SVGA/VGA
	DVI-I8	8Ch BNC HDCVI (Audio/Video /Control) 8ch @1080P
Network Video	Transfer Protocol	TCP/UDP/RTP/RTSP/RTCP
	Support Device	IPC, DVR, NVR, NVS
	Video Resolution	4K/1080P/UXGA/720P/D1/HD1/2CIF/CIF/QCIF
Others	HDCVI/HD-SDI/CVBS	

Video Output (Without decoding)		
HDMI	HDMI -O4	4ch HDMI, split max: 32 layers
	HDMI-O8	8ch HDMI, split max:32 layers
DVI	DVI -O4	4ch HDMI, split max: 32 layers
	SDI-O	SDI-O4/SDI-O8

Video Decoding Output	
HDMI-O4D	4ch HDMI Split :1/4/9/16/32/free split Decoding:4h@4K/16ch@1080/32ch@720p/64ch@D1 Supporting H.265

Matrix Switch		
Video Input	Analog Camera, Digital Camera, IPC, DVR, NVS, NVR and etc.	
IP HD Matrix Switch	1024 IP input, 160ch@1080p, 320ch@720p, 640p@D1/	
Video-Wall		
Decoding Card Video-Wall Splicing	Splicing	Support video-wall splicing (max 160 LCD display units)
	Video-Wall	Support Splicing Zoom/Merge/Roam/Overlay
	Input Source	HD/SD, Digital/Analog (support mix input)
	Output Port	DVI-D/HDMI
	Control Mode	Local Operate Menu / PC client-end / Network Keyboard

Network	
Interface	2 RJ-45 ports (10/100/1000M)
Serial Port	4 RS232 ports (1 DB9, 3 RJ45) , for console and control 1 RS485 port
USB	3 USB2.0, 1 USB3.0
General	
Power Supply	115-230V, 47-63Hz
Power Consumption	≤360W
Working Environment	0°C ~+50°C / 10~90%RH / 86~106kpa
Dimension	7U, 482.6 mm × 434 mm × 310 mm (W×D×H) for Main Matrix
Weight	≤35Kg
Warranty	Vanguard 1-year warranty and Vanguard Extended Warranty option