

## Overview

AVT-VWC-2000 is a high-performance video processing server without any operating system. It delivers high quality signal images and real-time video as it adopts large-capacity high-speed FPGA array and processing mechanism of CrossPoint data routing and exchange. Thanks to its hardware-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, exhibitions, military command, education and scientific research, government announcements, commercial displays and other industries.

## Features

- ◆ Max 8 layers one screen
- ◆ Maximum 32 displays with 4RU
- ◆ Maximum 16 full HD video sources with 4 RU
- ◆ 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 recalled in future
- ◆ Free easy-to-use configuration and control software

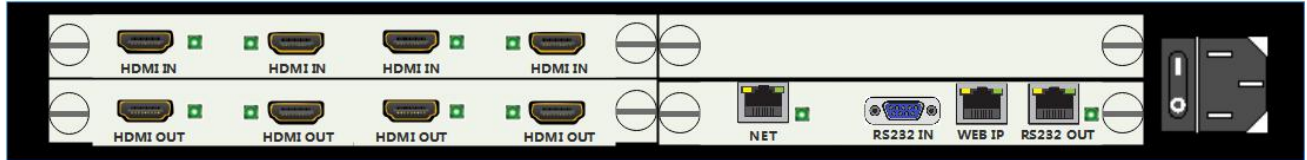
## Optional functions

- ◆ DVI I/O board available
- ◆ 4K HDMI up to 3840x2160 resolution
- ◆ Embedded HDMI audio from any source can be routed to each HDMI output
- ◆ OSD text on HDMI input source
- ◆ Vector subtitle display board
- ◆ Web Brower control via cross-platform from Windows, iOS, MacOS, Android, Linux and others

# Modular Chassis Architecture

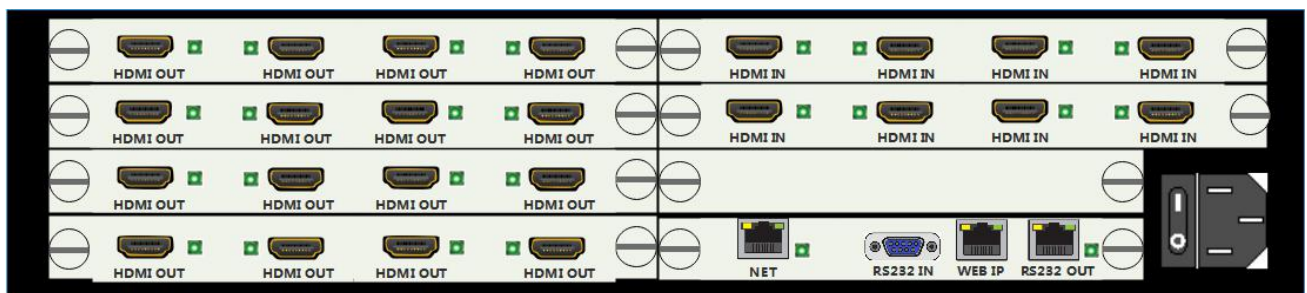
## 1U Chassis

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



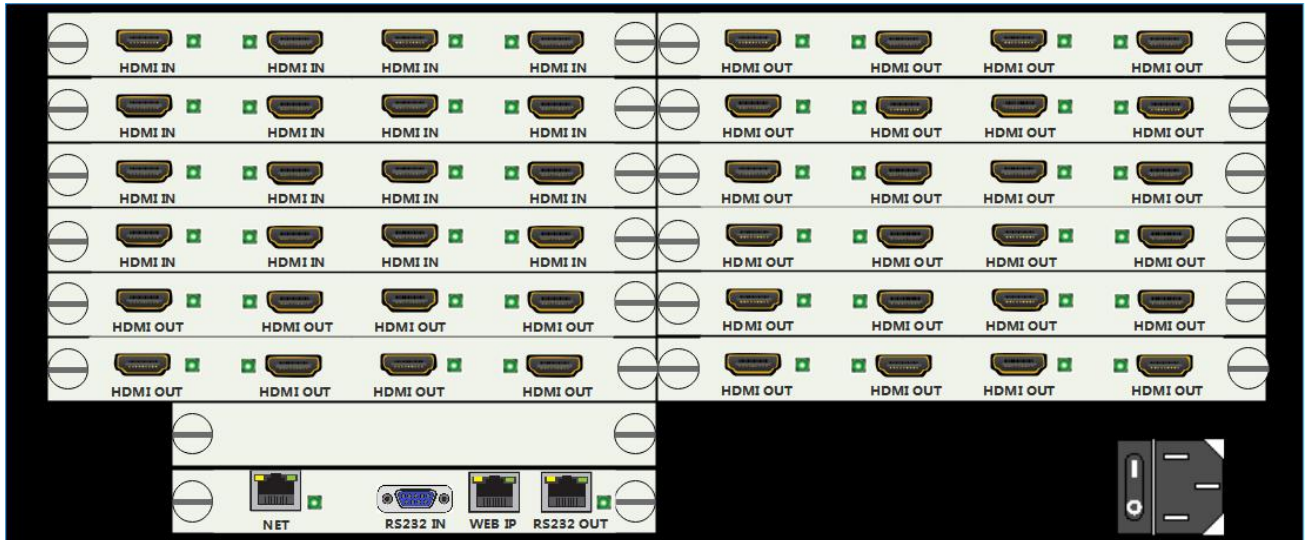
## 2U Chassis

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



## 4U Chassis

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



## Specification

Inputs							
Type	Qty	Parameters					
HDMI input board (Basic)	Optional	4 channels of HDMI Type A (Female), Support 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), Support 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), Support 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°C						
Working Humidity	10%-90% non-condensation						

# Diagram

