

# SC-SW1616E-Wall

## Matrix Wall Processor

Model Number:#0509241302



### Features

- 16 X HDMI 1.3 Input
- 16 X HDMI 1.3 Output (Matrix and Videowall)
- Supported HDCP 1.4
- Supported 6.75Gbps bandwidth
- Supported 1080P@60Hz Input and Output
- Support splicing video wall function
- Compact Design
- Control WEB GUI, TCP/IP, RS232 and IR remote
- EDID Management
- Seamless switching without image tear, black screen or flicker in the switching process
- Support any window roaming (2 or 4 windows) and image overlay function (2 or 4 layers)
- 2U Rack mount design

### Product Overview

The 4TheWall 16x16 Video Processor is a high-performance device based on an FPGA solution with proprietary video processing technology. Designed to handle demanding video wall applications, this processor supports up to 8 or 16 HDMI inputs and 16 HDMI outputs, providing flexibility and scalability for a variety of professional AV installations. With seamless switching and robust control options, this processor ensures high-definition video distribution with minimal signal degradation.

#### • Flexible Video Wall Processing:

- **16 HDMI Inputs and 16 HDMI Outputs:** Supports up to 8 or 16 HDMI input sources and 16 HDMI output displays, making it suitable for diverse AV setups that require flexible input/output configurations.
- **Supports Up to 4x4 Video Wall Configuration:** Can create video walls with up to 16 screens in a 4x4 arrangement, offering dynamic display capabilities for large-scale visual presentations.

#### • Seamless Switching and High-Resolution Support:

- **Seamless Switching with No Latency:** Ensures smooth and instant switching between video sources without delays, maintaining the flow of presentations or content displays.
- **Video Resolution Up to 1080P60 4:4:4:** Supports high-definition video resolutions up to 1080P at 60Hz with 4:4:4 chroma subsampling, delivering sharp, vibrant images and accurate colors.

#### • Advanced Window Roaming and Image Overlay Functions:

- **Window Roaming (2 or 4 Windows):** Supports roaming of up to 2 or 4 windows across the video wall, providing flexibility in content placement and dynamic presentations.
- **Image Overlay (2 or 4 Layers):** Allows overlay of 2 or 4 image layers, enabling complex visual arrangements and enhancing the visual impact of the content.

#### • Robust Signal Quality and Management:

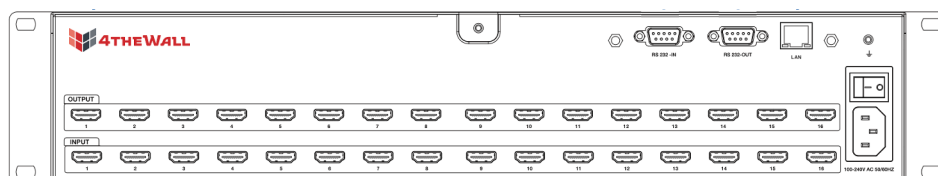
- **Prevention of Cross Talk and Signal Attenuation:** Follows strict industry standards to prevent cross talk between signals, reduce signal attenuation, and ensure the integrity of high-definition signals, resulting in superior output quality.

#### • Comprehensive Control Options:

- **Flexible Control Interfaces:** Can be controlled via PC program, RS-232, and LAN network port, providing versatile control options for both local and remote management, ensuring ease of use and integration into various control systems.

### Applications

- **Multimedia Conference Halls:** Ideal for large conference rooms and auditoriums where multiple video sources need to be displayed seamlessly across a video wall.
- **Educational and TV Teaching Settings:** Suitable for lecture halls, classrooms, and training facilities requiring dynamic video presentations and teaching aids.
- **Large Screen Display Projects:** Perfect for control rooms, digital signage, and large-scale video wall projects that demand flexible input/output configurations and high-quality video processing.



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### Technical Specifications

Input and Output	
Inputs	16 x HDMI 1.3 Type A (19-pin female), RS232 (9 Pin)
Outputs	16 x HDMI 1.3 Type A (19-pin female), RS232 (9 Pin)
Inputs Resolution	Up to 1080P@60Hz
Outputs Resolution	Up to 1080P@60Hz
General Features	
Video Bandwidth	6.75 Gbps
Color Space	RGB, YCbCr 4:4:4/4:2:2
Color	8 Bit
HDCP	1.4 and 1.x
Audio Formats	<b>HDMI:</b> PCM2.0
Management Features	
Management and Control	WEB GUI, TCP/IP, RS232 (3pin Phoenix) with API
Others	
Power Connection	DC 12V/3.7A (US/EU standard) (Locking connector), AC 100-240V 50/60Hz
Working Temperature	32 - 104°F / 0 - 40°C
Humidity Range	20 - 90% RH (no condensation)
Storage Temperature	-4 - 140°F / -20 - 60°C
Dimensions	440mm × 283mm × 88.6mm - Width/Depth/Height, Metal Enclosure
Weight	4.62kg
Power Value/Consumption	<65W Max
Mounting	2U Rack Mount
ESD Protection	±8kV (Air-Gap Discharge) & ±4kV (Contact Discharge)
Certifications	
EU/USA	CE/FCC/UL
Package Details	
Package Contents	1 x 16x16 video processor 1 x RS-232 serial cable (male to female, 1.5 meters) 3 x AC power cord (1.5 meters) 4 x Rubber foot 4 x Machine screw (M3*4) 1 x User manual