

# XtremeIPC

## VSN970

## VIDEO WALL CONTROLLER SOLUTIONS

Advanced Graphics Display Technology



### + HIGH PERFORMANCE CONTROLLER

EMS's IPC-VSN970 wall controller provides a high end, powerful solution for complex video wall installations (or control rooms). Providing complete control over large control room environments from military installations to CCTV and security suites to medical operating theatres.

The VSN970 has been designed, developed and optimised to operate with the latest generation of EMS's world leading PCI Express graphics and video capture cards providing High Definition video and audio, including the capture of multiple HDCP sources for display across the entire video wall.

The use of PCIe switched fabrics, enables the VSN970 system to be expanded using additional backplanes within VSN900X chassis connected via the optional expansion kit.

### + INTEL® CORE i7 PROCESSOR

The VSN970 system incorporates the EMS PCI PCIExpress9-G3 switched fabric backplane, providing 9 high bandwidth PCIe slots for use with any EMS video capture or graphics card. Also providing further benefits with the EMS's SBC4, a single board computer featuring an Intel Core i7 processor with up to 16GB of DDR3 memory and on-board graphics.

The backplane provides a single x8 lane slot (8GB/s) and eight x4 lane slots (4GB/s) each providing high speed bi-directional bandwidth. Allows UHD video to be captured and then displayed on the video wall with very low latency.

Each system comes complete with high quality, server grade hard drives with RAID 1, preinstalled with Windows 7® Ultimate edition (64bit). Enhanced system cooling is achieved via 3 variable speed fans, and each system offers on-board SATA and USB ports.



## + ADD FEATURES

EMS offer a full suite of applications for display control in a wide range of scenarios and business environments. Vigi Control software offers the ability to display video data in real time giving users control over a wide set of features including: video resolution and scale, cropping area, frame rate and position on the video wall. The EMS Vision set of drivers allow OEM suppliers to build efficient display control and content management applications, making full use of the underlying hardware capability.

## + RELIABILITY

The VSN970 is designed for 24/7 use and each component has been specifically tested to ensure very high reliability in demanding conditions. The VSN970 can be pre-installed with Wall Monitor software, an application that monitors system temperatures and includes alarm mechanisms that can warn operators if the system begins to operate outside of normal parameters.

## + MODELS AVAILABLE

Order Code: VSN970-ATX  
Video Wall Controller with 500 Watt ATX

Order Code: VSN970-RPSU  
Video Wall Controller with 600 Watt RPSU

Order Code: VSN900X-ATX/ RPSU  
Expansion chassis with 500/ 600 Watt ATX/RPSU

*All products are shipped with the latest software available, unless stated otherwise. Special requirements may be organised by contacting our Sales team.*



## + SPECIFICATIONS

### MOTHERBOARD

SBC4	Portwell ROBO8112 Q87
Processor	Intel® Core i7 4770s Clock speed 3.1 GHz Cache 8MB
Memory	8GB as standard (up to 16GB on request)
Ethernet	Dual 10Base-T/ 100Base-TX/ 1000 BaseT
On-board Graphics	DVI connection for control screen
RS232	For control

### DISK STORAGE

HDD	2 x Western Digital RED 750GB Enterprise Grade RAID 1 configured
Optical Drive	DVD/ RW combo drive

### CONNECTIVITY

USB	2 x 3.0 (back panel) 6 x 2.0 (2 front, 2 back, 2 internal) * Internal ports for security dongle
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### OPERATING SYSTEM

	Windows7 Ultimate 64 bit
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### BACKPLANE

Features	3rd generation PCIe switched fabric 1 slot x8 - 8GB/s uplink and downlink 8 slots x4 - 4GB/s uplink and downlink
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### POWER

	600 Watt RPSU Dual Redundant
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### ENVIRONMENT

Operating Temperature	0 to 35 DegC (32 to 95 DegF)
Storage Temperature	-20 to 70 DegC (-4 to 158 DegF)
Relative Humidity	5% to 90% non-condensing
Noise	48.6dB (A) up to 67.9dB (A); Dependent on system config & ambient temp

### DIMENSIONS

Length	500mm (including handles)
Height	175mm
Width	482.1mm
Weight	19 - 25kg (shipped 30 - 33kg)

### COMPLIANCE

	FCC/ CE/ ROHS/ UL/CCC
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*We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.*