

VSN 1170

Video Wall Controller Solutions

Advanced Graphics Display Technology



Powerful Wall Controller

Datapath's VSN1170 video wall controller has been designed for large video wall installations and control rooms. Suitable for operation centres, military facilities, process control services, boardrooms, classrooms and hospitals the VSN1170 offers the perfect balance between video capture and image display.

Providing seamless compatibility with Datapath's portfolio of Vision capture and Image graphics cards, the VSN1170 has been designed, developed and optimised to provide Ultra High Definition video & audio capture, including the capture of multiple, independent HDCP sources for display across the entire video wall.

High Performance Intel® Core i7 Processing

The VSN1170 is an industrial PC incorporating an 11 slot PCIe backplane. The switched fabric technology provides 11 x8 lane PCIe slots implemented with x16 physical connectors, with each slot capable of providing up to 8GB/s bi-directional bandwidth. Each system includes the Datapath SBC4, a single board computer that features an Intel Core i7 processor, up to 16GB of DDR3 memory and on-board graphics.

The flexibility of the Express11-G3 technology allows multiple backplanes to be arranged in a star configuration, providing the ability to create very large systems comprising several chassis each with 11 available slots for video capture inputs and/or graphics outputs, connected via the optional Gen3 expansion kit.

Software Features

When used in conjunction with Datapath's Wall Control software, users of the VSN1170 are able to easily manage the entire video wall. Features of Wall Control software include the ability to: control video resolution and scale, cropping area, frame rate and position of the output on the video wall. The Datapath 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 VSN1170 video wall controller has been designed for use in demanding control room environments, with each component having been rigorously tested to ensure high levels of reliability and performance.

Each VSN1170 is pre-installed with Wall Monitor software, an application that monitors system temperature and includes alarm mechanisms that can warn operators if the system begins to operate outside of normal parameters.

Specification

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) (DDR3)
Ethernet	Dual 10Base-T/100Base-TX/1000Base-T Ethernet ports
On Board Graphics	DVI Connection for Control Screen
RS232	For Control
Disk Storage	
HDD	2x Western Digital RED 750GB
	Enterprise Grade
	RAID 1 Configured
Optical Drive	DVD/RW Combo Drive
Connectivity	
USB	2 x 3.0 (Back Panel)
	5 x 2.0 (2 Front, 2 Back, 1 Internal)
Compliance	
	FCC / CE / ROHS / UL (TBC)

Backplane	
Features	3rd generation PCIe switched fabric
	11 slot x8 – 8GB/s uplink and downlink
Power	
	800 Watt RPSU Dual Redundant
Environmental	
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 67.9 db(A); Dependent on system configuration & ambient temp
Operating System	
	Windows® 7 Ultimate 64 bit
Dimensions - Standard 4U Chassis	
Length	500mm (inc handles)
Height	175mm
Width	482.1mm
Weight	19-25Kg
Shipped Weight	30-33Kg

Models Available

Code	Description
VSN 1170-RPSU	Controller with 800 Watt RPSU
VSN 1100X-RPSU	Expansion chassis with 800 Watt RPSU

All products are shipped with the latest production released software, unless stated otherwise. Special requirements may be organised by contacting our Sales team: sales@datapath.co.uk