

VSN V3

Scalable and ultra-secure
video wall controller



MISSION-CRITICAL VIDEO WALL CONTROLLERS

Datapath VSN controllers are engineered from the ground up for maximum performance, reliability, and efficiency. They capture, process, and display content on video walls across a range of industries, from small corporate meeting rooms to large critical control rooms and prestige installations.

Installed with Intel processors and memory options, Datapath VSNs can be preconfigured with Datapath Image graphics, Vision capture, and SQX IP decode cards for your specific project requirements.

POWER EFFICIENCY

The V3 generation introduces the latest technology in power efficiency and system cooling, and chassis enhancements to improve airflow and simplify system maintenance.

The VSN V3 includes support for 12th generation (Alder Lake) Intel Core i9, Core i7 or 10th generation Single Xeon processors, with memory options available of up to 128GB (ECC and non ECC). USB 3.0 is also now included to support high transfer speeds and connectivity to the latest devices.

The world's most advanced video wall controller

OPTIMIZED SYSTEM COOLING

The chassis includes hot-swappable fans, enabling uninterrupted 24/7 use and maintenance in the most critical installations. It has been redesigned to further optimize airflow, improve heat management, and reduce noise. This new design, along with a new platinum rated redundant power supply, makes this the most efficient VSN yet.

RELIABILITY

Datapath's VSN V3 video wall controller has been designed for use in demanding control room environments. Each component has been rigorously tested to ensure high levels of performance and reliability.

Diag-Suite is available on all Datapath systems and provides real time information on the performance of the controller and can be used by system administrators and support teams to quickly identify and rectify any problems.

SPECIFICATION

MOTHERBOARD

VSN V3 Core Processors
Portwell ROBO-8116VG2AR supporting DDR5 memory

VSN V3 Xeon Processor
Portwell ROBO-8115VG2AR supporting DDR4 memory

PROCESSOR

Core i9
12th generation Intel® Core i9
Clock speed 5.10GHz. 30MB cache

Core i7
12th generation Intel® Core i7

Core i5
Clock speed 4.90GHz. 25MB cache
12th Generation Intel Core i5 Clock speed, 18MB Cache

Xeon
10th Generation Intel Xeon
W-1270E Clock Speed 4.8GHz
16MB Cache

MEMORY

32GB (Standard)
64GB (Upgrade)
128GB (Xeon upgrade)

ETHERNET

Dual 10Base-T/ 100Base-TX/
1000BaseT

ON-BOARD GRAPHICS & AUDIO

Display Port, HDMI - V3 systems with Intel core i5, i7 or i9 processors
DVI-I - V3 systems with Intel Xeon processors
All systems have 3.5mm audio jack

DISK STORAGE

Hot swappable SSD
2 x 480GB SSD
Upgrade option: 2 x 960GB SSD

MODELS AVAILABLE

The VSN V3 is available with either an 11 or 5 slot backplane. Each VSN V3 is available with a choice of Intel Core i9, Core i7, Core i5 or Xeon processors.

All systems are shipped with Windows 10 21H2 LTSC, dual 480GB SSD and an 800W RPSU.^{1, 2} Windows 11 LTSC 24H2 can be requested at the time of ordering at no additional cost.

Order Codes:
Default configuration includes 32GB RAM & 480GB SSDs in RAID.

11 slot systems:	
Core i9	VSN-V3-11-A-RPSU
Core i7	VSN-V3-11-B-RPSU
Single Xeon	VSN-V3-11-G-RPSU
5 Slot systems:	
Core i9	VSN-V3-5-A-RPSU
Core i7	VSN-V3-5-B-RPSU
Core i5	VSN-V3-5-C-RPSU
Single Xeon	VSN-V3-5-G-RPSU
Expansion Systems:	
11 slot Expansion	VSN-V3-11-X-RPSU
5 slot Expansion	VSN-V3-5-X-RPSU

CONNECTIVITY

USB
4 x 3.0
2 x 2.0
1 x USB C (VSN V3 Intel Core i5/i7/i9 versions only)

BACKPLANE

Features
3rd generation PCIe switched fabric with 5 or 11 slot x8 - 8GB/s uplink and downlink

POWER

VSN V3
RPSU 800W, 100-240V~, 50/60Hz

OPERATING TEMPERATURE

0°C TO 35°C

STORAGE TEMPERATURE

-20°C TO 70°C

RELATIVE HUMIDITY

10% to 95% Non-Condensing³

OPERATING ALTITUDE

Up to 5,000m

NOISE

Between 52dB & 80dB³
Dependent on system config & ambient temp

DIMENSIONS

Size
507.6mm (l) x 177mm (h) x 482.6mm (w) with rack ears.

Weight

19kg - 25kg (shipped 30kg - 33kg)

COMPLIANCE

CE, UKCA, FCC

¹ Datapath systems are not compatible with Windows 10 Home edition. Windows 10 LTSC 21H2 is available with Microsoft support until 2032.

² All products are shipped with the latest software versions, unless stated otherwise. The specification stated is a minimum only. Higher specification systems may be provided without prior notice. Special requirements may be organised by contacting our Sales team.

³ Chassis fan speed is selected by the driver and can be affected by factors such as ambient temperature- system configuration & processor performance, amongst other things.

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