ADVANTECH
Video Wall Controller

Origin of Advantech Video Wall Controller

Met Matrox and Datapath

Advantech, one of the world leaders in industrial computers, not only provides global customers with high-tech, high quality embedded system platforms, but also fulfills its customers' needs with the value added services of on-demand production, global logistics, and technical support. Matrox and Datapath, two of the industry leading suppliers of display solutions, are well known for next-generation video wall solutions based on high performance, high flexibility, and multi-channel video signal series products. Aiming at offering premium solutions for video wall system integrators, Advantech, Matrox, and Datapath are jointly launching a series of video wall controllers by integrating and fine tuning industrial servers with graphic and video capture cards under strict and comprehensive compatibility, performance, and reliability verification. Enhanced by Advantech's global service network, the new partnership offers video wall integrators with unprecedented turnkey solutions and added value.

ADVANTECH
Enabling an Intelligent Planet

matrox®
Graphics for Professionals

DATAPATH
EXCELLENCE BY DESIGN

What Is an Advantech Video Wall Controller ?

An Advantech video wall controller is a specialized video wall server. Being strictly validated by the Matrox and Datapath laboratories, the Advantech video wall controller features Mura MPX series, Datapath graphic and capture card compatibility, and industrial reliability; key characteristics are listed below:
• Industrial Reliability: System can run stably under 40°C
• BIOS Optimized: Multiple Mura MPX or Datapath cards are recognized by the system and function well
• Thermal Optimization: No thermal issue even when multiple Mura MPX or Datapath cards are installed in the system
• Data Switch Optimized: Video captured can be displayed anywhere on the video wall
• Power Solution Optimized: Power supply is sufficient for the system to carry multiple Mura MPX or Datapath processors
• Remote Management: A remote administrator can monitor and control the system via network connection

### What Is Matrox the Mura MPX Series? And the Datapath graphic and video capture card?

The Matrox Mura MPX Series redefines the future of collaborative video walls and wall matrix management. Engineered to deliver unparalleled performance, image quality, and scalability, the Mura MPX Series output/input boards feature highly flexible, universal input channels supporting digital and analog signals, plus capabilities for HD image capture and display of uncompressed data and peer-to-peer data transfer. The Mura MPX Series really is an ideal solution for large-scale, multi-channel video wall applications.

Datapath's product portfolio offers a wide array of solutions that service such diverse markets as medical imaging, control rooms, entertainment and machine vision. The latest generation of video wall products is centered on video capture, image graphic card and software solutions.

Video Wall Architecture

A video wall, besides being used as a signage display, can also be a powerful control room tool, aggregating, integrating, analyzing and manipulating massive amounts of information from a whole array of sources. In professional applications that require high situational awareness - such as SCADA, emergency dispatch center, transportation, security, oil and energy - a reliable, high performance video wall is really the backbone of the central control room. When equipped with Matrox Mura MPX cards, the Advantech AVS video wall controller is capable of not only handling multiple displays but also of capturing video or graphics streams from a wide range of sources such as PC, NVR, DVR, decoder box, blue ray player, set up box, etc. Once streams are captured, the AVS video wall controller flexibly switches, scales, organizes and displays that content in real time. Powered by Matrox Mura MPX and endowed with industrial reliability, the Advantech AVS video wall controller makes an ideal solution for system integrators or OEMs who need to build high performance video wall systems.
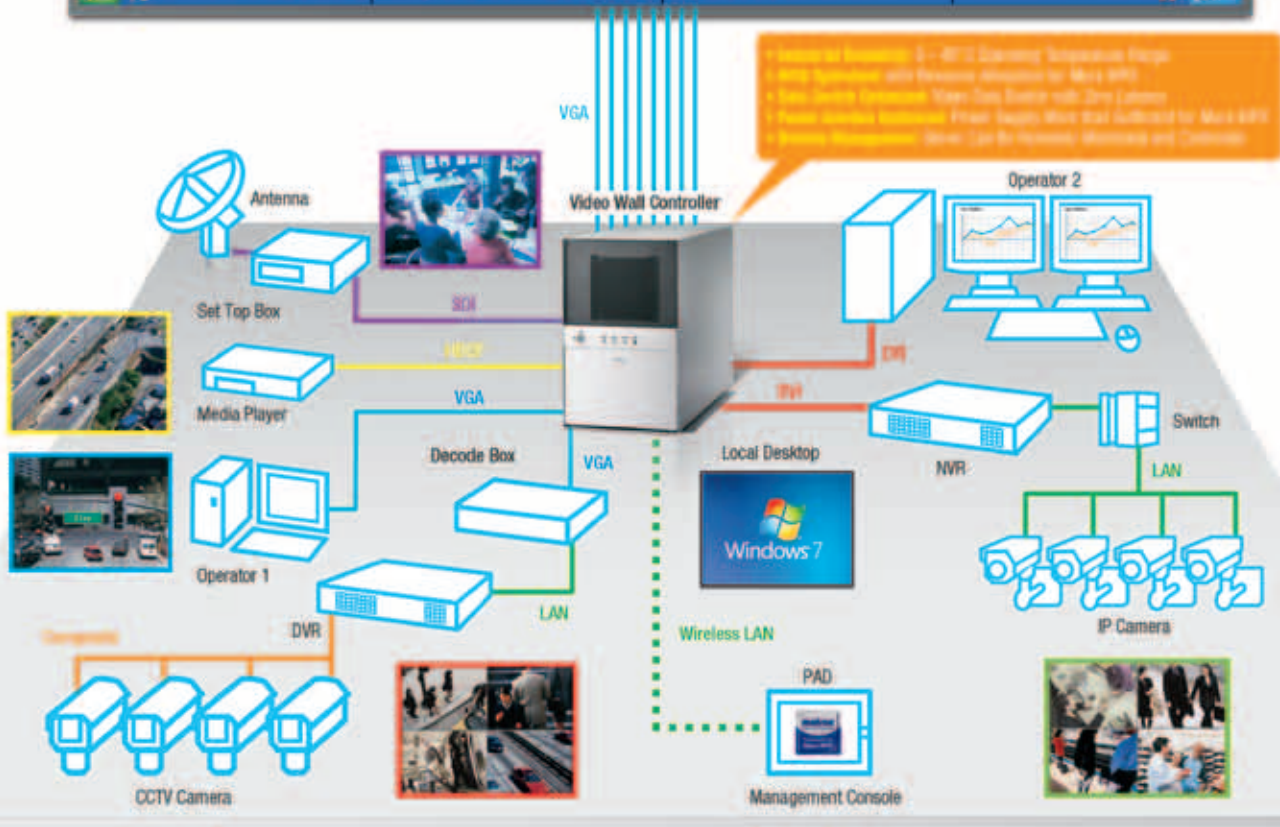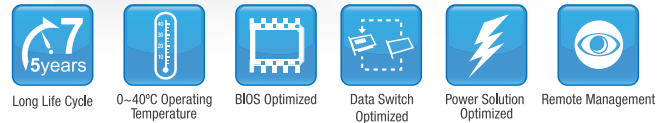
Video Wall Controller Selection Guide

8-40 Output Solutions

AVS series validated by Datapath

Model Name		AVS-542	AVS-543
Processor System	CPU	Intel® Xeon® E5-2600/E5-2600 V2 Series	Intel® Xeon® E5-2600 / E5-2600 V2 Series
	Memory	DDR3-1333/1600MHz (ECC) U-DIMM and R-DIMM up to 96GB	DDR3-1333/1600MHz (ECC) U-DIMM and R-DIMM up to 96GB
Video	Maximum Input	15 Analog/Digital or 40 Analog	16 Analog/Digital or 40 Analog
	Maximum Output	20	20
Drive Bay	3.5" Front-Accessible	-	4
	3.5" Internal	2	-
	2.5" Internal	1	1
Power Supply	Power Output Wattage	80+ Bronze 700W Single Power Supply	80+ Bronze 750W Redundant Power Supply
	Input Range	AC 100~240V	AC 100~240V
Miscellaneous	LED Indicators	Power status, HDD activity, temperature and fan status	Power status, HDD activity, temperature and fan status
	Remote Management	IPMI, Advantech Remote Monitoring Utility	IPMI, Advantech Remote Monitoring Utility
Physical Characteristics	Dimension	482x177x348mm (19" x 7.0" x 13.7")	482x177x478mm (19" x 7.0" x 18.8")

7 5years Long Life Cycle **0~40ºC** Operating Temperature **BIOS Optimized** **Data Switch Optimized** **Power Solution Optimized** **Remote Management**

AVS series validated by Matrox

Model Name		AVS-240	AVS-290	AVS-540	AVS-541	AVS-840	AVS-860
Processor System	CPU	Intel® Xeon® E5-2400 Series	Intel® Xeon® E3-1200 Series	Intel® Xeon® E5-2600 /E5-2600 V2 Series	Intel® Xeon® E3-1200V2 Series	Intel® Xeon® E3-1200V2 Series	Intel® Xeon® E3-1200V2 Series
	Memory	DDR3 1333/1600MHz (ECC) UDIMM/ RDIMM up to 96GB	DDR3-1333MHz (ECC) U-DIMM up to 32GB	DDR3-1333/1600MHz (ECC) U-DIMM and R-DIMM up to 96GB	DDR3-1333/1600MHz (ECC) U-DIMM up to 16GB	DDR3-1333/1600MHz (ECC) U-DIMM up to 16GB	DDR3-1333/1600MHz (ECC) U-DIMM up to 16GB
Video	Input	8 Analog/Digital + 16 Analog	8 Analog/Digital	20 Analog/Digital	20 Analog/Digital & 160 Analog	40 Analog/Digital	40 Analog/Digital
	Output	8 Analog/Digital	8 Analog/Digital	20 Analog/Digital	20 Analog/Digital	40 Analog/Digital	40 Analog/Digital
Drive Bay	5.25" Front-Accessible	3	1	3	3	3	4
	3.5" Front-Accessible	1	2	1	1	1	-
	3.5" Internal	-	1 x SATA	-	1	1	2
Power Supply	Power Output Wattage	80+ Bronze 500W Single Power Supply	80+ Bronze 400W ATX PS/2 Single Power Supply	80+ Bronze 700W Single Power Supply	810W 3+1 redundant power supply (front-accessible)	810W 3+1 redundant power supply (front-accessible)	80+ Bronze 750W Redundant Power Supply
	Input Range	AC 100~240 V	AC 100~240 V	AC 100~240 V	AC 100~240V	AC 100~240 V	AC 100~240 V
Miscellaneous	LED Indicators	Power status, HDD activity, temperature, fan, and power voltage status	Power status, HDD activity, temperature, and fan status	Power status, HDD activity, temperature, fan, and power voltage status	Power status, HDD activity, temperature, fan and power voltage status	Power status, HDD activity, temperature, fan and power voltage status	Power status, HDD activity, temperature, fan and power voltage status
	Remote Management	IPMI, Advantech Remote Monitoring Utility	IPMI, Advantech Remote Monitoring Utility	IPMI, Advantech Remote Monitoring Utility	Advantech Remote Monitoring Utility, iAMT 8.0	Advantech Remote Monitoring Utility, iAMT 8.0	Advantech Remote Monitoring Utility, iAMT 8.0
Physical Characteristics	Dimension	482 x 177 x 479 mm (19" x 7" x 18.9")	200 x 320 x 480 mm (7.9" x 12.6" x 18.9")	482 x 177 x 479 mm (19" x 7" x 18.9")	482 x 177 x 657 mm (19" x 7" x 26")	482 x 177 x 657 mm (19" x 7" x 26")	482 x 266 x 464 mm (19" x 10.5" x 18.3")