

AVS-540

4U Rackmount Xeon E5-2600 Video Wall Controller, Supporting 5 Matrox Mura MPX-4/4 & 1 Mura MPX-V16



CE FCC



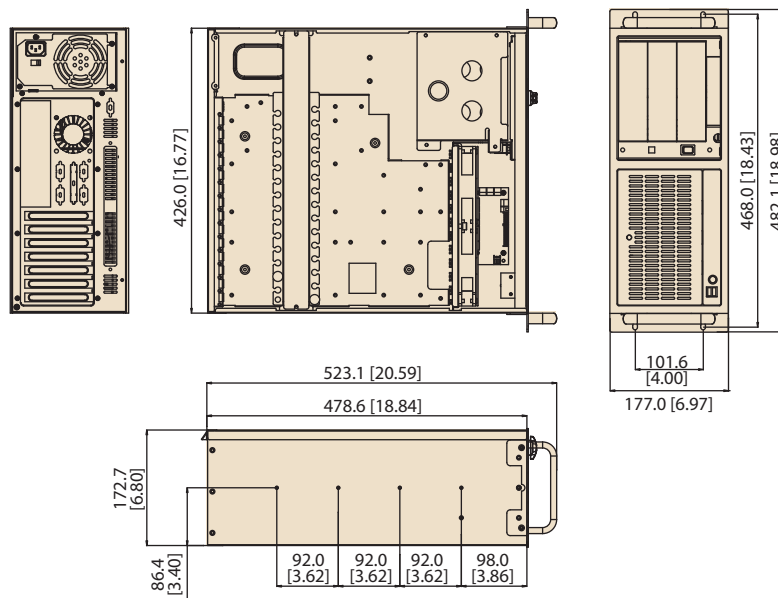
Features

- Validated by Matrox
- Support Mura Cards: 5 Mura MPX-4/4 and 1 Mura MPX-V16
- Maximum Video Input: 20 Analog/Digital + 16 Analog
- Maximum Video Output: 20 Analog / Digital
- Processor: Intel Xeon E5-2600 series up to 8 cores/ 16 threads
- Memory : DDR3-1333/1600 MHz (ECC) U-DIMM and R-DIMM up to 96 GB
- Remote Management: IPMI, Advantech Remote Monitoring Utility

Specifications

Processor System	Chipset	Intel C602J Chipset	
	CPU	Intel LGA2011 Xeon E5-2600 Single processor (up to 95W TDP)	
	L2 Cache	5/10/15/20 MB	
	Memory	ECC & Register or ECC or non ECC DDR3 1600/1333/1066 MHz UDIMMs, maximum 96 GB	
Graphics	Controller	Aspeed AST2300 (Needs being disabled when Mura MPX is installed)	
	VRAM	64 MB	
Expansion Slot	Slot location 1	PCI	
	Slot location 2	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot location 3	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot location 4	PCIe x16 slot (Gen3 x8 or x16 link), for Mura MPX-4/4 installation	
	Slot location 5	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot location 6	PCIe x16 slot (Gen3 x8 or x16 link), for Mura MPX-4/4 installation	
	Slot location 7	PCIe x8 slot (Gen2 x4 link), for Mura MPX-V16 installation	
Drive Bay	5.25" Front-Accessible	3	
	3.5" (Front Accessible)	1	
	3.5" Internal	-	
Ethernet	Interface	Dual 10/100/1000 Mbps Gigabit Ethernet	
	Controller	Intel 82579LM + Intel I210	
Front I/O Interface	USB	2 x USB2.0	
	PS/2	1	
Rear I/O Interface	USB	4 x USB2.0, 2 x USB 3.0	
	PS/2	2	
	COM	1	
	Display	1 x VGA	
	RJ-45	3 (1 is dedicated for IPMI)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80+ Bronze 700W Single Power Supply	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	2 (12 cm / 114 CFM each)	
	Air Filter	Yes	
Miscellaneous	LED Indicators	Power status, HDD activity, Temperature, Fan, and Power voltage status	
	Remote Management	Advantech Remote Monitoring Utility	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40° C (32~104° F)	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85% @ 40° C	10 ~ 95% @ 40° C
	Vibration (5 ~ 500 Hz)	1 Grms	2 Grms
	Shock	10G (with 11ms duration, half sine wave)	30G
Physical Characteristics	Dimension	482 x 177 x 479 mm (19" x 7" x 18.9")	

Dimensions



Ordering Information

Advantech P/N	Description
AVS-540-00A1E	4U Rackmount Xeon E5-2600 Video Wall Controller Supporting 5 Matrox Mura MPX
1960058073N001	Cooler for Xeon E5-2600 series CPU with TDP Up To 95W

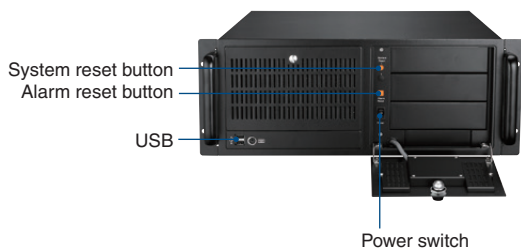
Note: Purchasing this CPU cooler is a must, other brand CPU cooler may result in compatibility issue.

System Contents

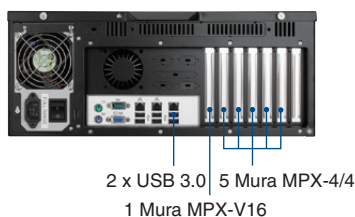
Items	Advantech P/N	Quantity
AVS-540 Bare-Bone System	N/A	1
Driver CD	2066822100	1

Note: CPU cooler needs to be purchased separately.

Front View



Rear View



Compatible Processors

Advantech P/N	Description
96MPXE-2.0-15M20T	XEON 2.0G 15M 2011P 6CORE E5-2620(G)
96MPXE-1.8-20M20T	XEON 1.8G 20M 2011P 8CORE E5-2648L(G)
96MPXE-2.1-20M20T	XEON 2.1G 20M 2011P 8CORE E5-2658(G)

Validated Matrox Mura Cards

Advantech P/N	Model	Output	Input
96VG-2G-PE-MA	Mura MPX-4/0	4	0
96VG-2G-PE-MA1	Mura MPX-4/2	4	2
96VG-2G-PE-MA2	Mura MPX-4/4	4	4
96VG-1G-PE-MA	Mura MPX-SDI	2	2
96VG-128M-PE-MA	Mura MPX-V8	0	8
96VG-256M-PE-MA	Mura MPX-V16	0	16

Optional Parts

Item	Advantech P/N
Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD trays	IDT-5230E
Mobile rack for converting a 3.5" drive bay to dual 2.5" SATA HDD trays	IDT-3120E
Mobile rack for converting a 5.25" drive bay to four 2.5" SAS/SATA HDD trays	96RACK-5SS-CAGE-CR
SATA cable with lock	1700003194
ACP-4000 rail kit	9680006905
HD Audio-Card	PCA-AUDIO-HDA1E (Occupying 1 expansion slot)

Note:

- To support 2 2.5" SATA HDDs RAID with on-board RAID: 1700003194 x 2 + IDT-3120E x 1
- To support 3 3.5" SATA HDDs RAID with on-board RAID: 1700003194 x 3 + IDT-5230E x 1
- To support 4 2.5" SATA HDDs RAID with on-board RAID: 1700003194 x 4 + 96RACK-5SS-CAGE-CR x 1

Validated OS

Advantech P/N	OS for Embedded System
968QS28F08	Windows Server® 2008 with Hyper-V™ Standard 64 Bit
968QSV2845	Windows Server® 2008 without Hyper-V™ Standard 64 Bit
968QW7PROE	Windows® 7 Professional 64 Bit