

AVS-541

4U Intel® Xeon® E3-1200V2 Video Wall Controller, Supporting 20-output Video Wall



CE FCC

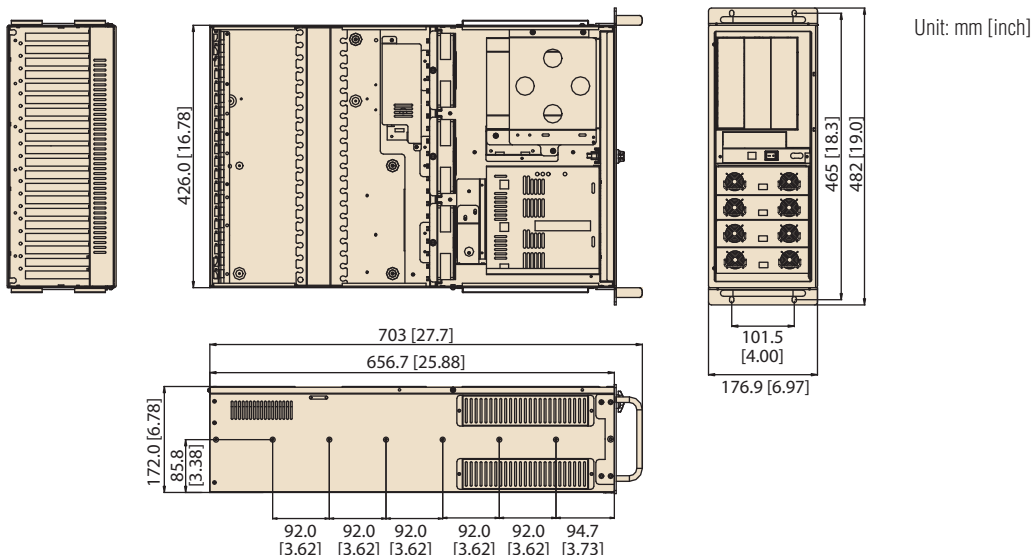
Features

- Validated by Matrox
- Supports Mura Cards: 5 Mura MPX-4/4 & 10 Mura MPX-V16
- Maximum Video Input: 20 Analog/Digital & 160 Analog
- Maximum Video Output: 20 Analog/Digital
- Processor: Intel Xeon E3-1200V2 series up to 4 cores/ 8 threads
- Memory : DDR3-1333/1600 MHz (ECC) U-DIMM up to 16 GB
- Remote Management: Advantech Remote Monitoring Utility, iAMT 8.0

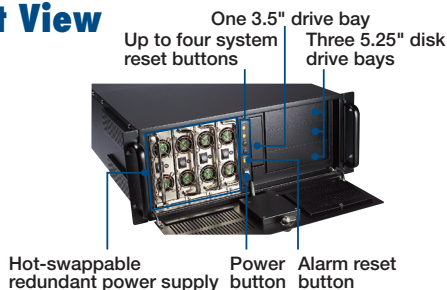
Specifications

Processor System	Chipset	Intel C216 Chipset	
	CPU	Intel LGA1155 Xeon E3-1200V2 Single processor (up to 95W TDP)	
	L2 Cache	2/3/6/8 MB	
	Memory	ECC & Register or ECC or non ECC DDR3 1600/1333/1066 MHz UDIMMs, maximum 16 GB	
Graphics	Controller	Aspeed AST2300 (Needs being disabled when Mura MPX is installed)	
	VRAM	64 MB	
Expansion Slot	Slot Location 1 (P1PCIEX4_1)	PCIex16 slot (Gen2 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 2 (P1PCIEX8_1)	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot Location 3 (P1PCIEX4_3)	PCIe x4 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 4 (P1PCIEX4_4)	PCIe x4 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 5 (P1PCIEX8_2)	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot Location 6 (P1PCIEX4_5)	PCIe x16 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 7 (P1PCIEX4_6)	PCIe x16 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 8 (P1PCIEX8_3)	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot Location 9 (P2PCIEX4_1)	PCIe x16 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 10 (P2PCIEX4_2)	PCIe x4 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 11 (P2PCIEX4_3)	PCIe x4 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 12 (P2PCIEX8_1)	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot Location 13 (P2PCIEX4_4)	PCIe x16 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 14 (P2PCIEX4_5)	PCIe x16 slot (Gen3 x4 link), for Mura MPX-V8/-V16 installation	
	Slot Location 15 (P2PCIEX8_2)	PCIe x16 slot (Gen3 x8 link), for Mura MPX-4/4 installation	
	Slot Location 16 (P2PCIEX4_6)	PCIe x16 slot (Gen3 x4 link)	
Drive Bay	5.25" Front-Accessible	3	
	3.5" (Front Accessible)	1	
	3.5" Internal	1	
Ethernet	Interface	Dual 10/100/1000 Mbps Gigabit Ethernet	
	Controller	Intel 82579LM + Intel 82574L	
Front I/O Interface	USB	2 x USB2.0	
	PS/2	1	
Rear I/O Interface	USB	1 x USB 3.0	
	PS/2	1 (KB & MS through the Y cable)	
	Display	1 x VGA	
	RJ-45	2	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	810W 3+1 redundant power supply (Front-accessible)	
	Input Range	AC 115 ~ 230 V (full range)	
Cooling	Chassis Fan	3 (12 cm / 114 CFM each)	
	Air Filter	4 (200 x 45 mm) + 1 (128 x 95 mm)	
Miscellaneous	LED Indicators	Power, HDD, fan, temperature, and power voltage status	
	Remote Management	Advantech Remote Monitoring Utility, iAMT 8.0	
Environment	Temperature	Operating 0 ~ 40° C (32~104° F)	Non-Operating -20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85% @ 40° C	
	Vibration (5 ~ 500 Hz)	1 Grms	
	Shock	10G (with 11ms duration, half sine wave)	
Physical Characteristics	Dimension	482 x 177 x 657 mm (19" x 7" x 26")	

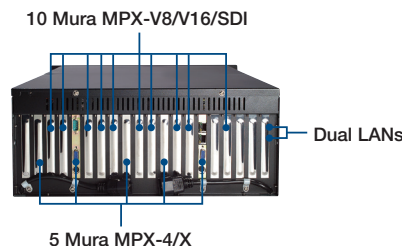
Dimensions



Front View



Rear View



Ordering Information

Advantech P/N	Description
AVS-541-01A1E	4U Rackmount Xeon E3-1200V2 Video Wall Controller, Supporting 5 Matrox Mura MPX-4/4 & 10 Mura MPX-V16
1960047831N001	AVS-541 Proprietary CPU Cooler
PCA-AUDIO-HDA1E	Audio extension module
PCA-TPM-00A1E	Trusted Platform Module compliant TCG 1.2
1700020277-01	2 ports of USB 3.0 cable W/ BKT(30cm)
1700008822	DVI-D Cable

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

Optional Parts

Item	Advantech P/N
Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD trays	IPC-DT-5230E
Mobile rack for converting a 3.5" drive bay to dual 2.5" SATA HDD trays	IPC-DT-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

System Contents

Items	Advantech P/N	Quantity
AVS-541 Bare-Bone System	N/A	1
Driver CD	2066512700	1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461	4-port USB cable kit	x1

Note: CPU cooler needs to be purchased separately.

Compatible Processors

Advantech P/N	Description
96MPXE-3.2-8M11T1	XEON 3.2G 8M 1155P 4CORE E3-1225V2(G)
96MPXE-3.5-8M11T	XEON 3.5G 8M 1155P 4CORE E3-1275V2(G)
96MPI3-3.3-3M11T1	CORE 3.3G 3M 1155P 2CORE I3-3220(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

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