AVS-240

4U Intel® Xeon® E5-2400 Video Wall Controller, Supporting 8-output Video Wall



Features

- Validated by Matrox
- Support Mura Card : 2 Mura MPX-4/4 and 1 Mura MPX-V16
- Maximum Video Input: 8 Analog/Digital
- Maximum Video Output: 8 Analog/Digital
- Processor: Intel Xeon E5-2400 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

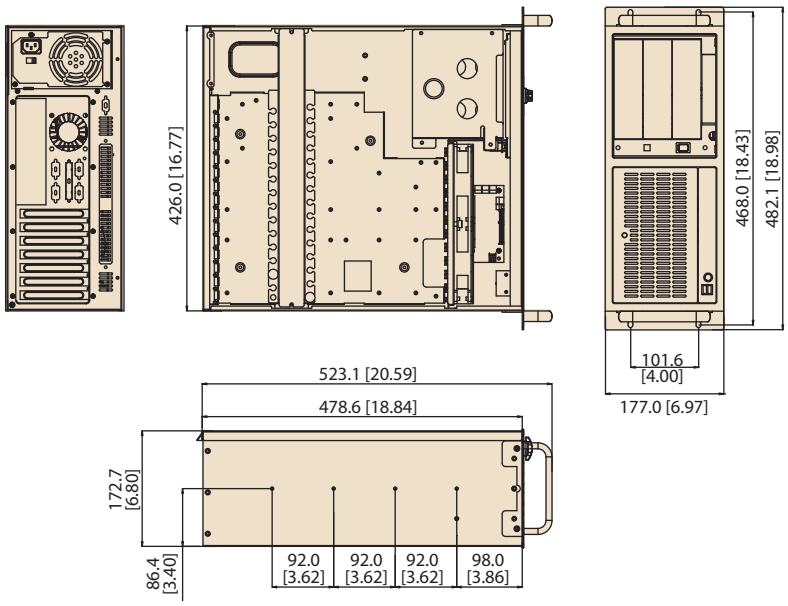
Specifications

Processor System	Chipset	Intel C602J Chipset	
	CPU	Intel LGA1356 Xeon E5-2400 Single processor (up to 95W TDP)	
	L2 Cache	20/15/10 MB	
	Front Side Bus	-	
	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	PCIe x16 (Gen 3.0)	16.0 GB/s per direction, 1 slot (For Mura MPX installation)	
	PCIe x8 (Gen 3.0)	8.0 GB/s per direction, 1 slot (For Mura MPX installation)	
	PCIe x4 (Gen 2.0)	2.0 GB/s per direction, 1 slot (For Mura MPX-V8/V16 installation)	
	PCIe x1 (Gen 2.0)	500 MB/s per direction, 1 slot	
	PCI	32 bit/33 MHz, 2 slots	
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 82574L	
Front I/O Interface	USB	2 x USB2.0	
	PS/2	1	
Rear I/O Interface	USB	4 x USB2.0	
	PS/2	2	
	COM	1	
	Disaplay	1 x VGA	
	Parallel	-	
	RJ-45	2	
Watchdog Timer	Output	Interrup, system reset	
	Interval	Programmable, 1~255 sec/min	
Power Supply	Power Output Wattage	80+ Bronze 500W Single Power Supply	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	2 (12 cm / 85 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 since wave)	30G
Physical Characteristics	Dimension	482 x 177 x 479 mm (19" x 7" x 18.9")	

All product specifications are subject to change without notice

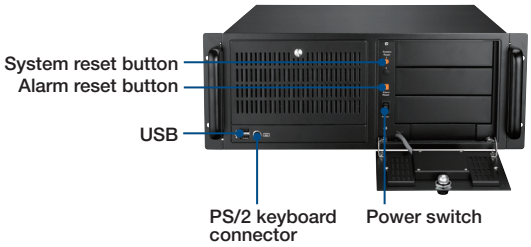
Last updated : 6-Oct-2015

Dimensions

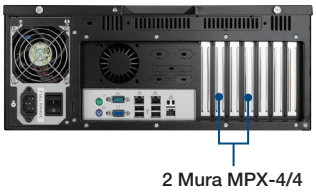


Unit: mm [inch]

Front View



Rear View



Ordering Information

Advantech P/N	Description
AVS-240-00A1E	4U Rackmount Xeon E5-2400 Video Wall Controller Supporting Dual Matrox Mura MPX
1960055362N011	Cooler for Xeon E5-2400 series CPU with TDP Up To 95W

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:
1. To support 2 2.5" SATA HDDs RAID with on-board RAID: 1700003194 x 2 + IDT-3120E x 1
2. To support 3 3.5" SATA HDDs RAID with on-board RAID: 1700003194 x 3 + IDT-5230E x 1
3. 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-240 Bare-Bone System	N/A	1
Driver CD	2066820I00	1

Note: CPU cooler needs to be purchased separately.

Compatible Processors

Advantech P/N	Description
96MPXE-1.8-15M13T	XEON 1.8G 15M 1356P 6CORE E5-2428L(G)- Sandy bridge
96MPXE-1.8-20M13T	XEON 1.8G 20M 1356P 8CORE E5-2448L(G)- Sandy bridge
96MPXE-2.0-10M13T	XEON 2.0G 10M 1356P 4CORE E5-2418L(G)- Sandy bridge

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