

AVS-840

4U Intel® Xeon® E3-1200V2 Video Wall Controller, Supporting 40-output Video Wall



CE FCC

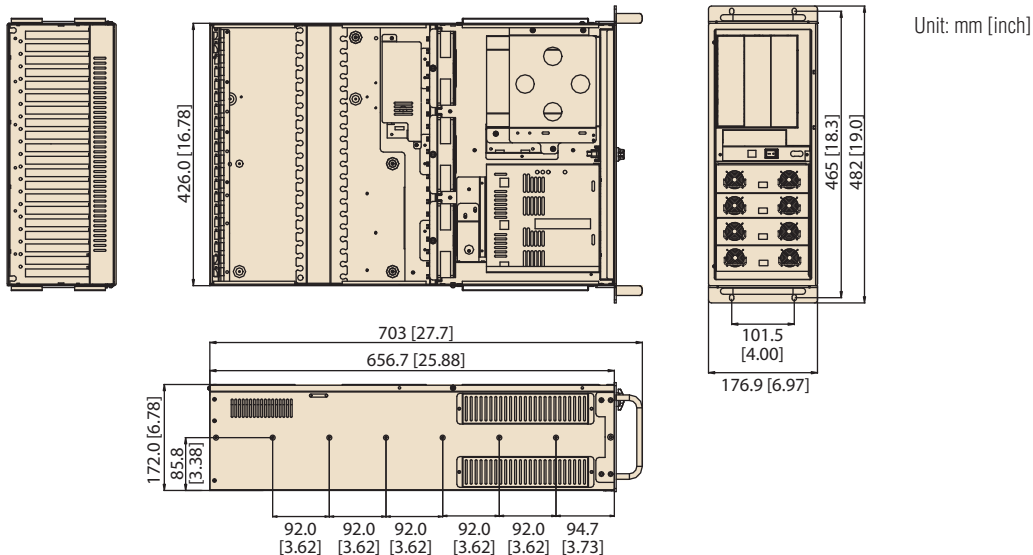
Features

- Validated by Matrox
- Support Mura Cards: 10 standard Mura MPX
- Maximum Video Input: 40 Analog/Digital
- Maximum Video Output: 40 Analog/Digital
- Processor: Intel Xeon E3-1200 V2 Series up to 4 cores/8 threads
- Memory : DDR3-1333/1600 MHz (ECC) U-DIMM and 16 GB
- Remote Management: Advantech Remote Monitoring Utility

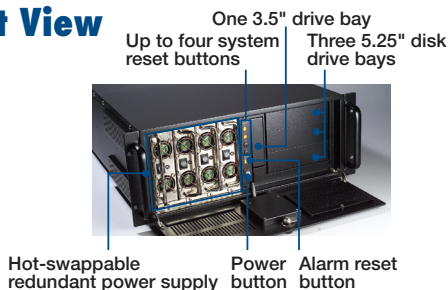
Specifications

Processor System	Chipset	Intel C216 Chipset
	CPU	Intel LGA 1155 Xeon E3-1200 V2 Single processor (up to 95W TDP)
	L3 Cache	8 MB
	Memory	ECC or non ECC DDR3 1333/1600 MHz UDIMMs, maximum 16 GB
Graphics	Controller	Chipset integrated Intel HD Graphic (Needs being disabled when Mura MPX is installed)
	VRAM	Shared system memory is subject to OS
Expansion Slot	Slot Location 1 (PPCIEX4_1)	PCIex16 slot (x4 link)
	Slot Location 2 (P1PCIEX16_1)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 3 (P1PCIEX16_2)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 4 (P1PCIEX16_3)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 5 (P1PCIEX16_4)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 6 (P1PCIEX16_5)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 7 (P2PCIEX16_1)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 8 (P2PCIEX16_2)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 9 (P2PCIEX16_3)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 10 (P2PCIEX16_4)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
	Slot Location 11 (P2PCIEX16_5)	PCIe x16 slot (Gen2 x16 link), for Mura MPX-4/4 installation
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	LAN1: Intel 82579LM LAN2: Intel 82574L
Front I/O Interface	USB	2 x USB2.0
	PS/2	-
Rear I/O Interface	USB	1 x USB 3.0, 4 x USB2.0 (via USB cable kit)
	PS/2	1 (Y cable for mouse and keyboard is included in the package)
	COM	-
	Display	1 x VGA
Watchdog Timer	RJ-45	2
	Output	Interrupt, system reset
Power Supply	Interval	Programmable, 1~255 sec
	Power Output Wattage	810W 3+1 redundant power supply (Front-accessible)
Cooling	Input Range	AC 100 ~ 240 V
	Chassis Fan	3 (12 cm / 114 CFM each)
Miscellaneous	Air Filter	4 (200 x 45 mm) + 1 (128 x 95 mm)
	LED Indicators	Power status, HDD activity, Temperature, Fan, and Power voltage status
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 657 mm (19" x 7" x 26")

Dimensions



Front View



Rear View



Ordering Information

Part Number	Power Supply
AVS-840-01A1E	4U Rackmount Xeon E3-1200 v2 Video Wall Controller, Support 10 Matrox Mura MPX
1960047831N001	PCE-7127 Proprietary CPU Cooler (2U)
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

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

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-840 barebone	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

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