

AVS-540

4U Intel® Xeon® E5-2600 Video Wall Controller, Supporting 20-output Video Wall

NEW



Features

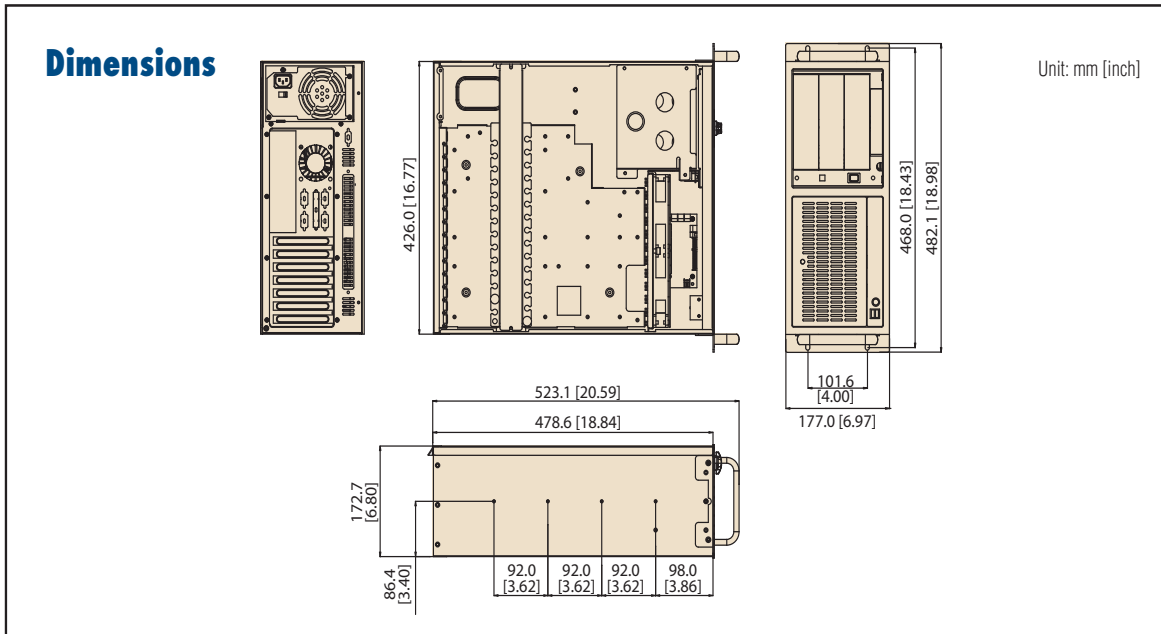
- Validated by Matrox
- Supports Mura Cards: 5 Mura MPX-4/4
- Maximum Video Input: 20 Analog/Digital
- Maximum Video Output: 20 Analog/Digital
- Processor: Intel Xeon E5-2600 series up to 8 cores/ 16 threads
- Memory : DDR3-1333/1600 MHz (ECC) U-DIMM and R-DIMM up to 96 GB
- Remote Management: IPMI,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

AVS-540



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 |

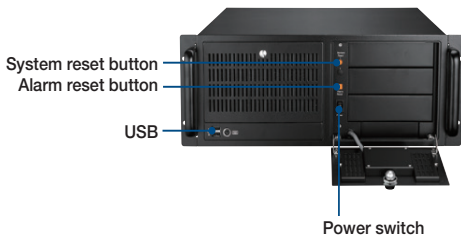
Note: Purchasing this CPU cooler is a must, other brand CPU cooler may result in compatibility issue.

System Contents

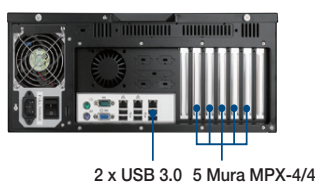
| Items | Advantech P/N | Quantity |
|--------------------------|---------------|----------|
| AVS-540 Bare-Bone System | N/A | 1 |
| Driver CD | 2066822100 | 1 |

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 |

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US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660