

AVS-240

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



CE FCC

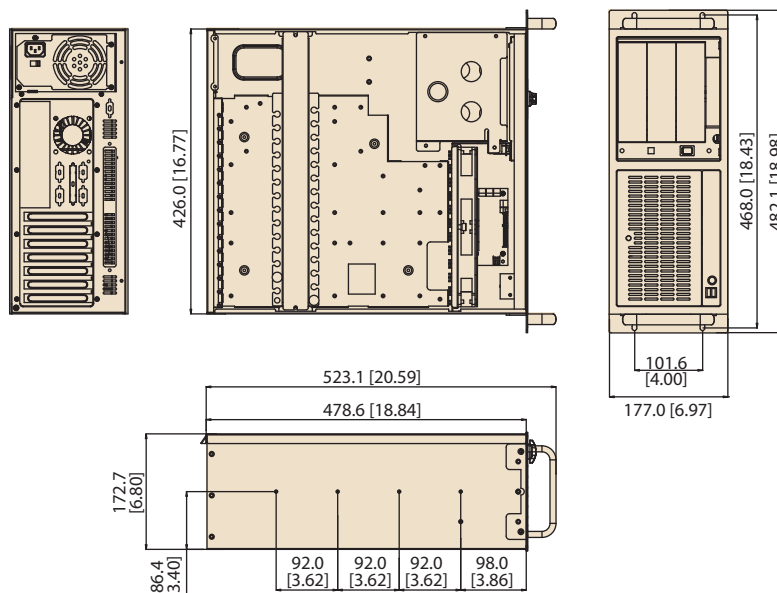
Features

- 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

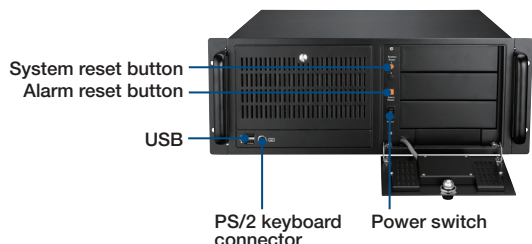
Specifications

| | | | |
|---------------------|--------------------------|--|--|
| 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 | |
| | Display | 1 x VGA | |
| | Parallel | - | |
| | RJ-45 | 2 | |
| Watchdog Timer | Output | Interrupt, 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 Temperature | 0 ~ 40° C (32~104° F) | Non-Operating -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") |

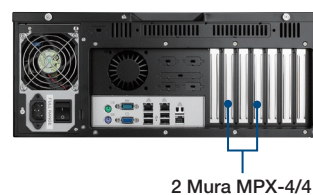
Dimensions



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:

- 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-240 Bare-Bone System | N/A | 1 |
| Driver CD | 2066820100 | 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 |