

# AVS-240

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

**NEW**



### Features

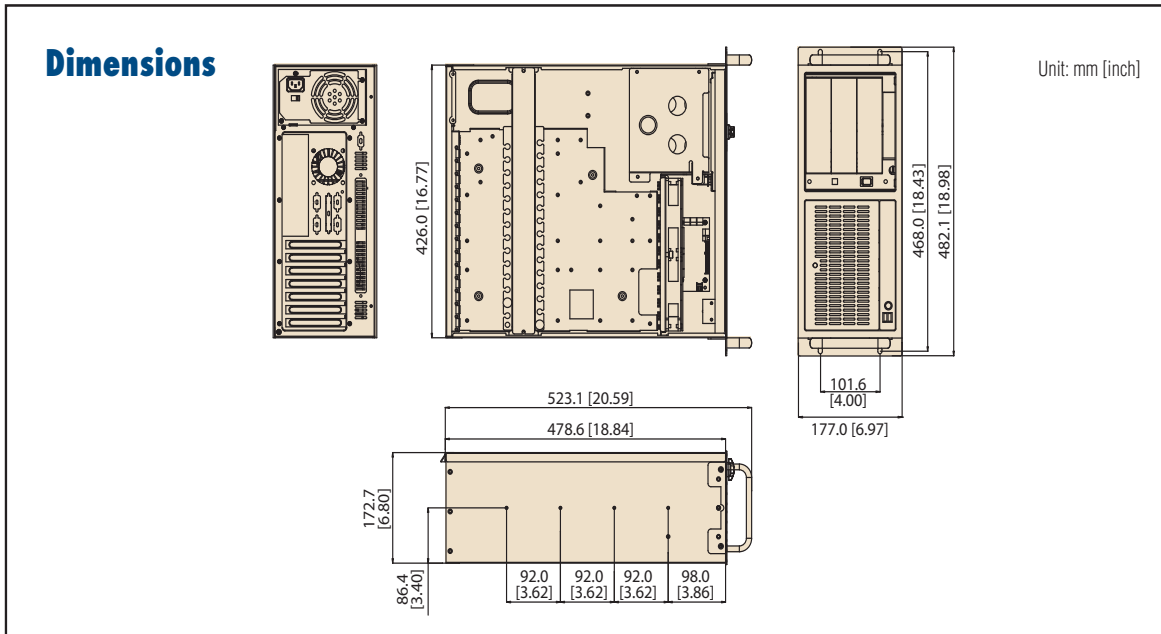
- Validated by Matrox
- Support Mura Card : 2 Mura MPX-4/4 and 1 Mura MPX-V16
- Maximum Video Input: 8 Analog/Digital
- Maximum Video Output: 8 Analog/Digital
- Processor: Intel Xeon E5-2400 series up to 8 cores/ 16 threads
- Memory : DDR3-1333/1600 MHz (ECC) U-DIMM and R-DIMM up to 96 GB
- Remote Management: 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          | -                                                                              |
| Graphics                 | Memory                  | ECC & Register or ECC or non ECC DDR3 1600/1333/1066 MHz UDIMMs, maximum 96 GB |
|                          | 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              | Temperature             | Operating: 0 ~ 40° C (32~104° F)<br>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)                                       |
|                          |                         | 30G                                                                            |
| Physical Characteristics | Dimension               | 482 x 177 x 479 mm (19" x 7" x 18.9")                                          |

**AVS-240**



**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                           |

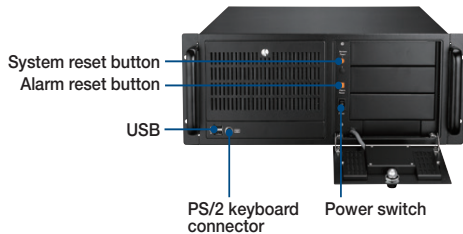
Note: Purchasing this CPU cooler is a must, other brand CPU cooler may result in compatibility issue.

**System Contents**

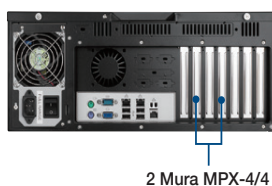
| Items                    | Advantech P/N | Quantity |
|--------------------------|---------------|----------|
| AVS-240 Bare-Bone System | N/A           | 1        |
| Driver CD                | 2066820100    | 1        |

Note: CPU cooler needs to be purchased separately.

**Front View**



**Rear View**



**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    |

**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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