

# 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



CE FCC

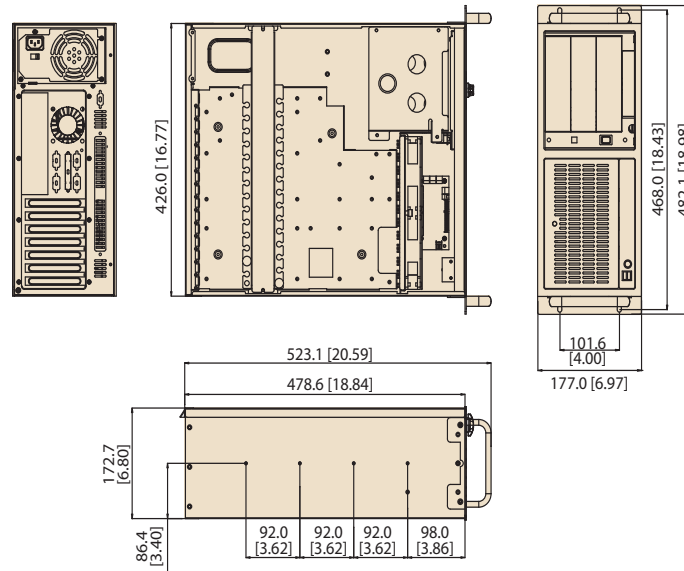


### Specifications

|                          |                         |                                                                                |                           |
|--------------------------|-------------------------|--------------------------------------------------------------------------------|---------------------------|
| 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                                                                  |                           |
| 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           | 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              | 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                    |
| Physical Characteristics | Shock                   | 10G (with 11ms duration, half sine wave)                                       | 30G                       |
|                          | Dimension               | 482 x 177 x 479 mm (19" x 7" x 18.9")                                          |                           |

## AVS-540

### Dimensions



### 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                        |

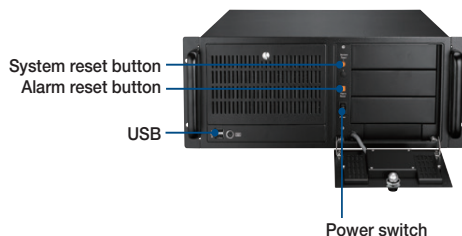
Note: Purchasing this CPU cooler is a must, other brand CPU cooler may result in compatibility issue.

### System Contents

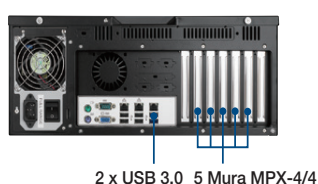
| Items                    | Advantech P/N | Quantity |
|--------------------------|---------------|----------|
| AVS-540 Bare-Bone System | N/A           | 1        |
| Driver CD                | 2066822100    | 1        |

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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