



AGS-MCCS-3U

TRIPLE DISPLAY COMMAND AND CONTROL PORTABLE COMPUTER



- Triple 17.3" FHD Displays
- 1920 x 1080 Each Display
- Single & Dual CPU Versions
- Liquid-Cooled CPU
- i7 3960X or Xeon E5-2960
- 64GB to 768GB RAM
- 500GB O/S HDD
- 3x 3TB Removable HDDs
- 3x RS232, 1x RS422/485
- 6-Channel nVidia Quadro System
- 1000W Power System
- 8-Channel Video Capture

CONTACT

Acme Government Systems
3240 Murray Road
Finksburg, MD 21048
Sales 650 948-1745
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Fax 866 885-4084
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The AGS-MCCS-3U is an all-metal, multi-screen portable computer designed for applications requiring extreme workstation-class graphics resolution and performance in a rugged transportable package. Choose i7 Extreme or Xeon liquid-cooler CPUs with up to 768GB RAM and 9TB HDD capacity. The system has three 17.3" Full-HD resolution 1920 x 1080 LCD displays, driven by a 6-channel nVidia Quadro Graphics System into a 52" diagonal screen measurement. With displays & keyboard stowed the systems makes for a compact deployable package. Multi bays and a 1000W power supply provide plenty of customization.



AGS-MCCS-3U

TRIPLE DISPLAY COMMAND AND CONTROL PORTABLE COMPUTER

SYSTEM SPECIFICATIONS - i7 EXTREME

Full-Size ATX Mainboard

Intel Core i7-3960X Extreme LGA2011, 15M Cache, 3.30 GHz GHZ, Up to 3.9 GHz with Intel® Turbo Boost Technology, 6 cores and 12 processing threads with Intel® Hyper-Threading Technology, 4x channels of DDR3 1066 MHz memory, resulting in up to 51.2 GB/sec memory bandwidth

CPU Cooling: High performance active liquid-cooled CPU heatsink, radiator & fan

RAM - 64GB 1333 MHz DDR3 RAM in 8 banks of 8GB/bank

Displays - Three folding 17.3" 16:10 Wide aspect ratio HD Displays WUXGA+ (1920 x 1080) with independent front-panel image adjustment and dimming controls & Touchscreens

Multi-Display Video Controllers - 1x nVidia Quadro NVS450 and 1x nVidia Quadro NVS295 for a total of 6x outputs. System configured to provide 3x outputs to drive left, center & right displays and 3x clone outputs (left, center, right) to drive external projectors.

External Projector Outputs - 3x clone Displayport outputs (left, center, right) to drive external projectors. Displayport to DVI-I adapters provided

Fixed internal O/S HDD - 500GB 2.5" SATA HDD (O/S HDD)

Internal RAID Controller for 3 removable HDDs configured as RAID5

Removable Data HDD - 9TB HDD, 3x 3.5" 3TB SATA HDD in individual removable Carriers - 3x Seagate Barracuda ST3000DM001 3TB 7200RPM 64MB Cache SATA 6.0Gb/s

Optical Drive - Slimline DVD Recorder DVD-R, DVD+R, DVD+RW

I/O Ports - 3x Displayport outputs for internal triple-display + 3x additional Displayport outputs for external projectors, 2x Gigabit-Ethernet ports, 4x USB 2.0 Ports, 4x USB 3.0 Ports, 9x Internal SATA Ports, 1x Internal RS232 Ports, PS/2 Keyboard & Mouse Ports, 1x S/PDIF digital output (7.1 HD audio) internal speakers

4x USB 3.0 Ports, 5GB/s Transfer Rate, 900MA available power per port

Multi-Format Memory Card Reader - All-in-one card reader, supports high speed data transmission along with all major memory cards, including new generation super capacity, high speed SD cards and the latest MS M2 flash card. The all-in-one design allows user to read and write data from to memory card without using an adaptor. This is especially advantageous for microSD or mobile users

- Slot 1 Compact Flash I/II, Microdrive
- Slot 2 SmartMedia card, xD
- Slot 3 Secure Digital (SD), SD2.0, SDHC2.0, MultiMedia Card, miniSD, miniSDHC2.0, MMCplus, MMCmobile, RS-MMC
- Slot 4 Memory Stick, Memory Stick Pro, Memory Stick Duo, Memory Stick Pro Duo, MS MagicGate, MS Pro MagicGate, MS Duo MagicGate, MS Pro Duo MagicGate, MS ROM
- Slot 5 M2, microSD

Eight Input NTSC/RS170 Hardware Compression Video Capture (Option)

Inputs are via 8 independent BNC connectors on the side of the system. Each video digitizer converts the analog video into digital video, and then transmits 30 digital images per second over the PCI bus. Each independent input can be placed into an individual window. Video capture cards have on-board hardware video compression to reduce load on main CPU

Power Supply - 1000W internal 110/220V 50/60Hz auto-switching power supply, AC power cord, Quad-fan Cooling System

Operating System - Windows 7 Professional 64-Bit, Installed

ENVIRONMENTAL

Temperature	MIL-STD-810E (501.4, 502.4)
	Operating: -0 °C to 50 °C
	Non-Operating: -40 °C to 70 °C
Humidity	Cooling: Conduction/Convection
	MIL-STD-810E (507.2)
	Relative Humidity: 20 % to 90 % operating, non-condensing; 10 % to 95% non-operating & non-condensing
Altitude	MIL-STD-810E (500.3)
	Operating: 15,000 ft (4571.8 m)
Vibration	MIL-STD-810E (514.4)
	Operating: 10 to 500 Hz 1.04 g (RMS)
Shock	MIL-STD-810E (516.4)
	Operating: 15 G, 8 ms ½ sine
	Non-Operating: 40 G, 8 ms ½ sine
Drop (non-operating):	4 inches
	39" in shipping carton



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TRIPLE DISPLAY COMMAND AND CONTROL PORTABLE COMPUTER

SYSTEM SPECIFICATIONS - XEON E5

Full-Size ATX Mainboard

Intel Xeon E5-2690 Server CPU LGA2011, 20M Cache, 2.9 GHz, Up to 3.8 GHz with Intel® Turbo Boost Technology QPI: 8.00 GT/s, 8 cores and 16 processing threads with Intel® Hyper-Threading Technology, 4x channels of DDR3 1600 MHz memory-51.2GB/s memory Bandwidth, Intel® Virtualization Technology (VT-x)

CPU Cooling: High performance active liquid-cooled CPU heatsink, radiator & fan

RAM - 128GB 1600 MHz DDR3 RDIMM ECC RAM in 8 banks of 16GB/bank

Displays - Three folding 17.3" 16:10 Wide aspect ratio HD Displays WUXGA+ (1920 x 1080) with independent front-panel image adjustment and dimming controls & Touchscreens

Multi-Display Video Controllers - 1x nVidia Quadro NVS450 and 1x nVidia Quadro NVS295 for a total of 6x outputs. System configured to provide 3x outputs to drive left, center & right displays and 3x clone outputs (left, center, right) to drive external projectors.

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Fixed internal O/S HDD - 500GB 2.5" SATA HDD (O/S HDD)

Internal RAID Controller for 3 removable HDDs configured as RAID5

Removable Data HDD - 9TB HDD, 3x 3.5" 3TB SATA HDD in individual removable Carriers - 3x Seagate Barracuda ST3000DM001 3TB 7200RPM 64MB Cache SATA 6.0Gb/s

Optical Drive - Slimline DVD Recorder DVD-R, DVD+R, DVD+RW

I/O Ports - 3x Displayport outputs for internal triple-display + 3x additional Displayport outputs for external projectors, Dual Gigabit Ethernet LAN ports; Intel® 82579LM and Intel® 82574L, 4 USB 3.0 (5Gbps) ports (2 rear, 2 via headers) & 14 USB 2.0 ports

(8 rear, 6 via headers), 2 SATA3 (6Gbps), 4 SATA (3Gbps), & 4 SATA2 (3Gbps) ports via SCU, 1x Internal RS232 Ports, PS/2 Keyboard & Mouse Ports, 1x S/PDIF digital output (7.1 HD audio) internal speakers

4x USB 3.0 Ports, 5GB/s Transfer Rate, 900MA available power per port

Multi-Format Memory Card Reader - All-in-one card reader, supports high speed data transmission along with all major memory cards, including new generation super capacity, high speed SD cards and the latest MS M2 flash card. The all-in-one design allows user to read and write data from to memory card without using an adaptor. This is especially advantageous for microSD or mobile users

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- Slot 5 M2, microSD

Power Supply - 1000W internal 110/220V 50/60Hz auto-switching power supply, AC power cord, Quad-fan Cooling System

Operating System - Windows 7 Professional 64-Bit, Installed

ENVIRONMENTAL

Temperature

MIL-STD-810E (501.4, 502.4)

Operating: -0 °C to 50 °C

Non-Operating: -40 °C to 70 °C

Cooling: Conduction/Convection

Humidity

MIL-STD-810E (507.2)

Relative Humidity: 20 % to 90 % operating, non-condensing; 10 % to 95% non-operating & non-condensing MIL-STD-810E (500.3)

Altitude

Operating: 15,000 ft (4571.8 m)

Vibration

MIL-STD-810E (514.4)

Operating: 10 to 500 Hz 1.04 g (RMS)

Shock

MIL-STD-810E (516.4)

Operating: 15 G, 8 ms ½ sine

Non-Operating: 40 G, 8 ms ½ sine

Drop (non-operating): 4 inches

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SYSTEM SPECIFICATIONS - SECOND CPU (Option)

Secondary Embedded CPU System
Rear-mounted expansion chassis houses secondary independent processor
Portwell WADE-8020 mini-ITX Motherboard
Processor CPU: Generation 3 i7-3770S, 65W CPU, 3.1GHz, Turbo Boost to 3.9GHz
Chipset/Core Logic: Intel® Z77
System Memory: 8GB DDR3 1600/1333 MHz, 16GB MAX
Storage - Storage connected to main system removable carriers #1B and #3
1x 2.5" 128GB SSD Win7 64-bit Operating System Drive in removable carrier #1B
1x 3.5" 1TB SATA HDD in removable carrier #3 for Linux storage
Video - VGA video via VGA connector. This connector routed via switch to one of the three MCCS displays for use in development and troubleshooting
Video Switching
Left display is connected to the Windows environment
Center display can be switched between the Windows environment and the Linux environment from the secondary CPU.
Right hand display can be switched between the Windows environment and the RS-170 composite Video inputs (When the video option is selected)
Switching accomplished by use of the front panel controls for each display



DIMENSIONS & WEIGHT

17.1"W x 10.7"D x 13.8"H
47.5LB (Single CPU Version)

TRANSIT CASE

is designed to meet MILSPEC transit requirements, and is strong and durable, airtight and waterproof, and includes black powder coated stainless steel hardware that will withstand the most demanding shipping

- Exterior Length 29.00 in, Exterior Width 27.25 in, Exterior Depth 19.25 in, Shipping Weight including MCCS 80.00 lb
- Superior roto molded strength and ergonomic design
- Impenetrable, yet lightweight LLDPE shell for maximum impact resistance
- UV, solvent, corrosion and fungus resistant (MIL-STD-810F)
- Complete gasket seal makes these cases absolutely watertight (MIL-STD-648C & IP67)
- Automatic ambient pressure equalization value (MIL-STD-648C & IP67)
- Black powder coated stainless steel hardware prevents rusting



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