



Extreme Performance Digital Workstations

For Today's Demand of Massive Digital Imaging Processing



A workstation built specially for photogrammetry and remote sensing applications

The **EP-10600** is the latest generation of GGSs ultra high performance workstations optimized for the handling of large amounts of digital images typical of airborne or space-borne digital imaging sensors.

Custom built to customer specifications with **Supermicro®** mission critical components and state-of-the-art technology, the EP series brings top graphics performance for 2D, 3D and Stereo applications thanks to the high end graphics cards used in all our configurations.

The **EP-10600** systems can hold an impressive amount of local storage in a RAID of high capacity SAS or SATA disk drives. All contained in a compact, whisper quiet, elegant, and heavy duty enterprise level tower chassis.

Main Features

- State-of-the-Art intel Xeon v3/v4 CPUs
- Two built in RAID controllers (0,1,5,10)
- Up to 8 x 6TB SAS/SATA drives on line!
- 56 Gbps Infiniband networking (optional)
- High end NVidia Stereo graphic controller
- Optional drive bays for data exchange
- 1 Year Warranty
- Redundant power supply (optional)

Motherboard

Processor/Cache)		
CPU	Intel® Xeon® processor E5-2600 v3/4 family [†]		
Cores / Cache	Dual Socket R3 LGA 2011 (160W max) Up to 22 Cores / Up to 55MB Cache		
System Bus	QPI up to 9.6 GT/s		
System Memory			
Memory Capacity	16x 288-pin DDR4 DIMM slots Up to 2TB DDR4 ECC 3DS LRDIMM Up to 1TB DDR4 ECC RDIMM		
Memory Type	2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit RDIMM: 32GB, 16GB, 8GB, 4GB		
DIMM Sizes	LRDIMM: 64GB, 32GB. 3DS LRDIMM: 128GB		
Error Detection	Corrects single-bit errors		
On-Board Device			
Chipset AHCI SATA	Intel® C612 chipset		
SCU SATA	SATA 3 (6Gbps) with RAID 0, 1, 5, 10 SATA 3 (6Gbps) with RAID 0, 1, 5, 10		
Network	Dual Intel® i210 Gigabit Ethernet Ports		
Controllers	Supports 10Base-T, 100BASE-TX, and		
	1000BASE-T, RJ45 output RealTek ALC888 7.1 High Definition Audio		
Audio	with S/PDIF header		
Input / Output			
SATA	10x SATA 3.0 ports (6Gbps)		
LAN	2 RJ45 Gigabit Ethernet LAN ports 6 USB 3 ports (4 rear + 2 via header)		
USB	5 USB 2 ports (2 rear + 2 via header, 1 type A)		
Audio	7.1 HD Audio with optical S/PDIF		
DOM TPM	2x SuperDOM (Disk on Module) ports 1 TPM 1.2 20-pin Header		
Expansion Slots			
PCI-Express	3x PCI-E 3.0 x16 slots 2x PCI-E 3.0 x8 slots 1x PCI-E 2.0 x4 (in x8 slot) (Both CPUs need to be installed for full access		
Sustan BIOS	to PCI-E slots and onboard controllers)		
System BIOS BIOS Type	128Mb SPI Elash EEPPOM with AMI BIOS		
вюз туре	128Mb SPI Flash EEPROM with AMI BIOS Plug and Play (PnP), APM 1.2, DMI 2.3 PCI 2.3,		
BIOS Features	ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1		
	UEFI 2.3.1		
Management			
Software	SuperDoctor® 5, Watch Dog, NMI		
Power Configurati	ACPI Power Management		
PC Health Monito	Power-on mode for AC power recovery		
	Monitors for CPU Cores, +1.8V, +3.3V,		
Voltage	+5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages 6 Phase-switching voltage regulator 8x 4-pin fan headers (up to 8 fans)		
FAN	8x fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors		
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors Thermal Monitor 2 (TM2) support PECI CPU / System Overheat LED		
LED	Suspend static indicator LED UID/Remote UID		

Other Features	SDDC Sup RoHS	rusion header port		
Operating Environment				
Operating Temperature Range Non-Operating Temperature		10°C - 35°C (50°F - 95°F) -40°C - 70°C (-40°F - 158°F)		
Range Operating Relative Humidity		8% - 90% (non-condensing)		
Range Non-Operating Relative		5% - 95% (non-condensing)		
Humidity Range				

Chassis intrusion detection

Chassis specifications

Tower chassis with support for motherboard size of 12" x 13" E-ATX

Dimensions			
Width	7.0" (178mm)		
Height	17.8" (452mm)		
Depth	25.5" (648mm)		
Gross Weight	56 lbs (25.4kg)		
Color	Black		
Expansion Slots			
7x Full-height, Full-ler Drive Bays	ngth PCI expansion slots		
Drive Days			
Hot-swap	8x 3.5" SAS / SATA Hot-swap Drive Bays SAS or enterprise SATA HDD used only		
Peripheral Bay(s)	23 5.25" Peripheral Drive Bay Drive Bays are 90° Rotatable		
Backplane	SAS / SATA Hard Drive Backplane w/AMI MG9072		
Front Panel			
Buttons	Power On/Off button System Reset button		
LEDs	Power LED Hard drive activity LED 2x Network activity LEDs System Overheat LED Power Fail LED		
Ports	2x USB 3.0 Ports (top)		
System Cooling (Supe	er Quiet configuration)		
ans	2x 80mm Super Quiet PWM Chassis Fans 1x 92mm Super Quiet Rear Fan		
System Monitoring			
Chassis intrusion switch			
Operating Environment (System)			

Operating Temperature Range	5°C ~ 35°C (41°F ~ 95°F)
Non-Operating Temperature Range	-40°C ~ 60°C (-40°F ~ 140°F)
Operating Relative Humidity Range	8% ~ 90% (non-condensing)
Non-Operating Relative Humidity Range	5% - 95% (non-condensing)

1200W max

Certification (Redundant PS version) 20A/20A/ 99A/0.3A/ 3A



Certification (single PS version) Platinum Certified

Regulatory (Power Supply)

Power Supply Safety / EMC USA - UL listed, FCC Canada - CUL listed Germany - TUV Certified Europe/CE Mark EN 60950/IEC 60950-Compliant CB report ready



Power Supply (Dual redundant power supply optional)

1200W high-efficiency power supply w/ PMBus

AC Input DC Output 1000W max 1000W: 100-114.9 V, 50-60 Hz, 12 Amp 1200W: 114.9-240 V, 50-60 Hz, 12-8 Amp +3.3V / +5V / +12V / -12V / +5VSB 20A / 20A / 83A / 0.3A / 3A

Options and Accessories

- Single or dual LCD monitors
- Stereo monitors
- NVidia Stereo Vision Kit 2
- GGS Softmouse 3D photogrammetric controller
- · Removable drives for data courier with field crew
- We specialize in building systems with the exact configuration according to the user specifications.

About Global Geo Supplies

Founded in 2001, Global Geo Supplies, incorporated in the state of Colorado, USA, holds a long experience in the field of systems integration for high end photogrammetric and scientific workstations.

Since 2009 Global Geo Supplies is also the manufacturer and worldwide distributor of Softmouse 3D, the most widely used photogrammetric controller, supported by all major brands of photogrammetry applications.

For more information, visit: <u>www.softmouse3D.com</u>, contact us at <u>Sales@ggsnet.com</u> or call us at +1 303 792 5157,



Stereo monitors



Nvidia Stereo Vision Kit 2



GGS Softmouse 3D - USB



Portable workstations for field crews



Data exchange drives with carrying case