

# Attachment 1 - ACMA Computers, Inc. - Pricing and Discount Chart (Product Additions)

Based upon ACMA Computer Price List dated on June 1, 2010

Product Count = 46

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
<b><u>Servers &amp; High Performance Parallel GPU Computing Solutions</u></b>							
132-8	ACMA	PSC-2n	<p><b>GPU Tower Servers</b> Helios 960-Core Tesla Tower Server</p> <p>Industry's first massively multi-threaded architecture with a 240-core.</p> <p>Many-core architecture delivers optimum scaling across HPC applications. Optimized for scientific computing, delivering up to 15x cost savings, 20x lower power, and 250x the performance than traditional 1U rackoptimized servers or desktop workstations.</p> <p>Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs. High-efficiency computing platform for energy-conscious organizations. NVIDIA CUDAT Technology unlocks the power of Tesla many-core computing products. Seamlessly able to fit into existing HPC environments. Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications. Up to four Tesla processors (240 computing cores per processor, 980 cores total) Four Teraflops of parallel supercomputing performance IEEE 754 single &amp; double floating point precision Up to 16 GB dedicated memory (organized as 4.0 GB per GPU) Up to 4x 512-bit GDDR3 memory interface (organized as a 512-bit interface per GPU) Up to 408 GB/sec memory bandwidth (102 GB/s per GPU to local memory) Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Intel® 5520 chipset, with integrated memory controllers for each processor Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Up to 64GB DDR3 Reg. ECC 1333/1066 memory System dimension: 23.6" x 9.6" x 24.6" / 600 x 245 x 625 mm (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	PSC-5n	<p>Helios 480-Core Tesla Tower Server</p> <p>Industry's first massively multi-threaded architecture with a 240-core.</p> <p>Many-core architecture delivers optimum scaling across HPC applications. Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs. High-efficiency computing platform for energy-conscious organizations. NVIDIA CUDAT Technology unlocks the power of Tesla many-core computing products. Seamlessly able to fit into existing HPC environments. Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications. Up to two Tesla processors (240 computing cores per processor, 480 cores total) Delivers two teraflops in a tower chassis with a typical energy footprint of 1,000 watts IEEE 754 single &amp; double floating point precision Up to 8 GB dedicated memory (organized as 4.0 GB per GPU) 2 x 512-bit GDDR3 memory interface (organized as a 512-bit interface per GPU) Up to 204 GB/sec memory bandwidth (102 GB/s per GPU to local memory) Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Intel® 5520 chipset, with integrated memory controllers for each processor Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Up to 96GB DDR3 Reg. ECC 1333/1066 memory System dimension: 20.9"x7.8"x16.7" (D x W x H)</p>	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	PSC-6n	<p>Helios 960-Core Tesla Tower Server</p> <p>Industry's first massively multi-threaded architecture with a 240-core.</p> <p>Many-core architecture delivers optimum scaling across HPC applications. Optimized for scientific computing, delivering up to 15x cost savings, 20x lower power, and 250x the performance than traditional 1U rackoptimized servers or desktop workstations.</p> <p>Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs. High-efficiency computing platform for energy-conscious organizations. NVIDIA CUDAT Technology unlocks the power of Tesla many-core computing products. Seamlessly able to fit into existing HPC environments.</p>	.us	Three-year parts and labor warranty	N	Server Appliance

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications.</p> <p>Up to four Tesla processors (240 computing cores per processor, 980 cores total)</p> <p>Four Teraflops of parallel supercomputing performance</p> <p>IEEE 754 single &amp; double floating point precision</p> <p>Up to 16 GB dedicated memory (organized as 4.0 GB per GPU)</p> <p>Up to 4x 512-bit GDDR3 memory interface (organized as a 512-bit interface per GPU)</p> <p>Up to 408 GB/sec memory bandwidth (102 GB/s per GPU to local memory)</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Intel® 5520 chipset, with integrated memory controllers for each processor</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Up to 96 GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory</p> <p>Expansion slots include: 4 x PCI-E 2.0 x16 slots, 2 x PCI-E 2.0 x4 (in x16 slots), 1 x PCI-E x4 (in x8 slot), 2 x 33MHz PCI slots</p> <p>Drive bays include: 8x 3.5" Hot-swap SAS/SATA drive bays, 3x 5.25" drive bays in storage module - rotates 90° for Rackmount, and 1x 3.5" fixed drive bay</p> <p>System dimension: 7" (178mm) x 17.8" (452mm) x 29.4" (746mm) (H x W x D)</p>				
132-8	ACMA	FSC-2n	<p>Helios 1,792-Core Tesla Tower Server</p> <p>Powered by the massively parallel CUDA architecture, transforming a workstation to perform like a small cluster at 1/20th the power consumption and 1/10th the cost</p> <p>Supports four Tesla C2050/C2070 GPU cards (448 computing cores per card, 1,792 cores total)</p> <p>Delivers 4.12 Teraflops of single precision floating point and 2,060 GFLOPS of double precision floating point performance in a single chassis</p> <p>Offers protection of data in memory to enhance data integrity and reliability for applications. Register files, L1/L2 caches, shared memory, and DRAM all are ECC protected</p> <p>NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand</p> <p>Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications.</p> <p>Supports four Tesla C2050/C2070 GPU cards (448 computing cores per card, 1,792 cores total)</p> <p>Delivers 4.12 Teraflops of single precision floating point and 2,060 GFLOPS of double precision floating point performance in a single chassis</p> <p>IEEE 754 single &amp; double floating point precision</p> <p>Up to 12 or 24 GB dedicated DDR5 memory (organized as 3GB per Tesla C2050 GPU and 6GB per Tesla C2070 GPU)</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect</p> <p>Intel® 5520 chipset, with integrated memory controllers for each processor</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Up to 64GB DDR3 Reg. ECC 1333/1066 memory</p> <p>System dimension: 23.6" x 9.6" x 24.6" / 600mm x 245mm x 625 mm (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	FSC-5n	<p>Helios 896-Core Tesla Tower Server</p> <p>Powered by the massively parallel CUDA architecture, transforming a workstation to perform like a small cluster at 1/20th the power consumption and 1/10th the cost</p> <p>Supports two Tesla C2050/C2070 GPU cards (448 computing cores per card, 896 cores total)</p> <p>Delivers 2.06 Teraflops of single precision floating point and 1,030 GFLOPS of double precision floating point performance in a single chassis</p> <p>Offers protection of data in memory to enhance data integrity and reliability for applications. Register files, L1/L2 caches, shared memory, and DRAM all are ECC protected</p> <p>NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand</p> <p>Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications.</p> <p>Supports two Tesla C2050/C2070 GPU cards (448 computing cores per card, 896 cores total)</p> <p>Delivers 2.06 Teraflops of single precision floating point and 1,030 GFLOPS of double precision floating point performance in a single chassis</p> <p>IEEE 754 single &amp; double floating point precision</p> <p>Up to 6 or 12 GB dedicated DDR5 memory (organized as 3GB per Tesla C2050 GPU and 6GB per Tesla C2070 GPU)</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect</p> <p>Intel® 5520 chipset, with integrated memory controllers for each processor</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Up to 96GB DDR3 Reg. ECC 1333/1066 memory</p> <p>System dimension: 20.9"x7.8"x16.7" (D x W x H)</p>	.us	Three-year parts and labor warranty	N	Server Appliance

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
132-8	ACMA	FSC-6n	Helios 1,792-Core Tesla Tower Server	.us	Three-year parts and labor warranty	N	Server Appliance
			<p>Powered by the massively parallel CUDA architecture, transforming a workstation to perform like a small cluster at 1/20th the power consumption and 1/10th the cost</p> <p>Supports four Tesla C2050/C2070 GPU cards (448 computing cores per card, 1,792 cores total)</p> <p>Delivers 4.12 Teraflops of single precision floating point and 2,060 GFLOPS of double precision floating point performance in a single chassis</p> <p>Offers protection of data in memory to enhance data integrity and reliability for applications. Register files, L1/L2 caches, shared memory, and DRAM all are ECC protected</p> <p>NVIDIA® Paralle DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand</p> <p>Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications.</p> <p>Supports four Tesla C2050/C2070 GPU cards (448 computing cores per card, 1,792 cores total)</p> <p>Delivers 4.12 Teraflops of single precision floating point and 2.06 Teraflops of double precision floating point performance in a single chassis</p> <p>IEEE 754 single &amp; double floating point precision</p> <p>Up to 12 or 24 GB dedicated DDR5 memory (organized as 3GB per Tesla C2050 GPU and 6GB per Tesla C2070 GPU)</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect</p> <p>Intel® 5520 chipset, with integrated memory controllers for each processor</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Up to 192GB DDR3 Reg. ECC 1333/1066 memory 8x 3.5" hot-swap SAS/SATA drive bays</p> <p>Two expansion slots for other single-slot add-on cards</p> <p>System dimension: 7" (178mm) x 17.8" (452mm) x 29.4" (746mm) (H x W x D)</p>				
132-8	ACMA	FSC-4N1	Helios 3200-Core FireStream Tower Server	.us	Three-year parts and labor warranty	N	Server Appliance
			<p>Parallel processing architecture with up to 3200 stream cores per system</p> <p>Massively parallel, programmable GPU architecture, providing unprecedented performance/watt and performance/\$</p> <p>ATI Stream SDK leverages open source technology and software technology partners to provide a robust, open, multi-layer development environment on 64-bit Linux and Windows</p> <p>Open systems approach access to high level tools from multiple 3rd party developers</p> <p>Ideal for the most demanding compute-intensive, data-parallel tasks, including:</p> <ul style="list-style-type: none"> <li>Climate research</li> <li>Computational chemistry and biology</li> <li>Engineering analysis</li> <li>Financial analysis</li> <li>Genetic research</li> <li>Oil and gas exploration</li> <li>Graphics rendering</li> <li>Security</li> <li>Seismic processing</li> </ul> <p>Up to four ATI FireStream™ 9270 processors (800 computing cores per processor, 3,200 cores total)</p> <p>Delivers up to 4.8 teraflops Single Precision or 960 gigaflops Double Precision floating point performance (peak) in a tower chassis</p> <p>Up to 4x 256-bit GDDR5 memory interface (organized as a 256-bit interface per GPU)</p> <p>Up to 435.2 GB/sec memory bandwidth (108.8 GB/s per GPU to local memory)</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Intel® 5520 chipset, with integrated memory controllers for each processor</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Up to 64GB DDR3 Reg. ECC 1333/1066 memory</p> <p>Server management: On-board Trusted Platform Management (TPM) 1.2; IPMI 2.0 compliant baseboard management controller (BMC) / Supports storage over IP and remote platform-flash/ BIOS update / USB 2.0 virtual hub</p> <p>Supported Language: Brooks+ (for ATI Stream SDK v1.4)</p> <p>Supported Operating Systems: Microsoft® Windows® XP SP3 (32-bit/64-bit), Microsoft® Windows® Vista® SP1 (32-bit/64-bit), Microsoft® Windows® 7® (32-bit/64-bit), Red Hat® Enterprise Linux® (RHEL) 5.1, 5.2 (32-bit/64-bit), SUSE Linux® Enterprise Server (SLES) 10 SP2 (32-bit/64-bit), openSUSE™ 11.0 (32-bit/64-bit)</p> <p>Up to 8GB dedicated memory (organized as 2.0 GB per GPU)</p> <p>Up to 4x 256-bit GDDR5 memory interface (organized as a 256-bit interface per GPU)</p> <p>Up to 435.2 GB/sec memory bandwidth (108.8 GB/s per GPU to local memory)</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Intel® 5520 chipset, with integrated memory controllers for each processor</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Up to 64GB DDR3 Reg. ECC 1333/1066 memory</p> <p>Server management: On-board Trusted Platform Management (TPM) 1.2; IPMI 2.0 compliant baseboard management controller (BMC) / Supports storage over IP and remote platform-flash/ BIOS update / USB 2.0 virtual hub</p> <p>Supported Language: Brooks+ (for ATI Stream SDK v1.4)</p> <p>Supported Operating Systems: Microsoft® Windows® XP SP3 (32-bit/64-bit), Microsoft® Windows® Vista® SP1 (32-bit/64-bit), Microsoft® Windows® 7® (32-bit/64-bit), Red Hat® Enterprise Linux® (RHEL) 5.1, 5.2 (32-bit/64-bit), SUSE Linux® Enterprise Server (SLES) 10 SP2 (32-bit/64-bit), openSUSE™ 11.0 (32-bit/64-bit)</p>				

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			Supported Compilers: Microsoft® Visual Studio® (MSVS) 2005, 2008, GNU Compiler Collection (GCC) 4.1.2 System dimension: 23.6" x 9.6" x 24.6" / 600 x 245 x 625 mm (H x W x D)				
132-8	ACMA	Xn-1113G	<b>GPU Servers</b> Helios 480-Core Xeon Tesla Personal Supercomputer  Industry's first massively multi-threaded architecture with a 240-core.  Many-core architecture delivers optimum scaling across HPC applications. Optimized for scientific computing, delivering up to 15x cost savings, 20x lower power, and 250x the performance than traditional 1U rackoptimized servers or desktop workstations. Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs. High-efficiency computing platform for energy-conscious organizations. NVIDIA CUDAT Technology unlocks the power of Tesla many-core computing products. Seamlessly able to fit into existing HPC environments. Ideal for life sciences, ge sciences, engineering & sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil & gas applications. Supports two Tesla C1060 GPU cards (240 computing cores per card, 480 cores total) Delivers two teraflops in a 1U chassis 93% Gold level 1400W energy efficient power supply Supports one low profile PCI-E 2.0 x4 add-on card (in x16 slot) Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores & 12 threads, and 12MB L2 cache per processor Utilizing Intel® 5520 chipset, with integrated memory controllers for each processor, and with Intel® QuickPath architecture up to 6.40 GT/s Up to 96GB of Reg. ECC DDR3 1333/1066/800 MHz memory 3 x hot-swap 3.5" SATA drive bays Onboard Matrox graphics controller IPMI 2.0 with virtual media over LAN and KVM-over-LAN Dual Gigabit Ethernet connections 17.2" x 1.7" x 28.2" (W x H x D) system dimension	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	Xn-1114G	Helios 480-Core Xeon Tesla Personal Supercomputer  Industry's first massively multi-threaded architecture with a 240-core.  Many-core architecture delivers optimum scaling across HPC applications. Optimized for scientific computing, delivering up to 15x cost savings, 20x lower power, and 250x the performance than traditional 1U rackoptimized servers or desktop workstations. Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs. High-efficiency computing platform for energy-conscious organizations. NVIDIA CUDAT Technology unlocks the power of Tesla many-core computing products. Seamlessly able to fit into existing HPC environments. Ideal for life sciences, ge sciences, engineering & sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil & gas applications. Supports two Tesla C1060 GPU cards (240 computing cores per card, 480 cores total) Delivers two teraflops in a 1U chassis 93% Gold level 1400W energy efficient power supply Supports one low profile PCI-E 2.0 x4 add-on card (in x16 slot) Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores & 12 threads, and 12MB L2 cache per processor Utilizing Intel® 5520 chipset, with integrated memory controllers for each processor, and with Intel® QuickPath architecture up to 6.40 GT/s Up to 96GB of Reg. ECC DDR3 1333/1066/800 MHz memory 6 x hot-swap 2.5" SATA drive bays Onboard Matrox graphics controller IPMI 2.0 with virtual media over LAN and KVM-over-LAN Dual Gigabit Ethernet 17.2" x 1.7" x 28.2" (W x H x D) system dimension	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	Xn-F1113G	Helios 896-Core Xeon Tesla Personal Supercomputer  Powered by the massively parallel CUDA architecture, transforming a workstation to perform like a small cluster at 1/20th the power consumption and 1/10th the cost Supports two Tesla C2050/C2070 GPU cards (448 computing cores per card, 896 cores total) Delivers 2.06 Teraflops of single precision floating point and 1,030 GFLOPS of double precision floating point performance in a single chassis Offers protection of data in memory to enhance data integrity and reliability for applications. Register files, L1/L2 caches, shared memory, and DRAM all are ECC protected NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand Ideal for life sciences, ge sciences, engineering & sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil & gas applications. Supports two Tesla C2050/C2070 GPU cards (448 computing cores per card, 896 cores total) Delivers 2.06 Teraflops of single precision floating point and 1,030	.us	Three-year parts and labor warranty	N	Server Appliance

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>GFLOPS of double precision floating point performance in a 1U chassis  IEEE 754 single &amp; double floating point precision  Up to 6 or 12 GB dedicated DDR5 memory (organized as 3GB per  Tesla C2050 GPU and 6GB per Tesla C2070 GPU) 93% Gold level 1400W energy efficient power supply  Supports one low profile PCI-E 2.0 x4 add-on card (in x16 slot)  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect.  Utilizing Intel® 5520 chipset, with integrated memory controllers for each processor, and with Intel® QuickPath architecture up to 6.40 GT/s  Up to 96GB of Reg. ECC DDR3 1333/1066/800 MHz memory  3 x hot-swap 3.5" SATA drive bays  Onboard Matrox graphics controller  IPMI 2.0 with virtual media over LAN and KVM-over-LAN  Dual Gigabit Ethernet  17.2" x 1.7" x 28.2" (W x H x D) system dimension</p>				
132-8	ACMA	Xn-F1114G	<p>Helios 896-Core Xeon Tesla Personal Supercomputer</p> <p>Powered by the massively parallel CUDA architecture, transforming a workstation to perform like a small cluster at 1/20th the power consumption and 1/10th the cost  Supports two Tesla C2050/C2070 GPU cards (448 computing cores per card, 896 cores total)  Delivers 2.06 Teraflops of single precision floating point and 1,030 GFLOPS of double precision floating point performance in a single chassis  Offers protection of data in memory to enhance data integrity and reliability for applications. Register files, L1/L2 caches, shared memory, and DRAM all are ECC protected  NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand  NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand  Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications.  Supports two Tesla C2050/C2070 GPU cards (448 computing cores per card, 896 cores total)  Delivers 2.06 Teraflops of single precision floating point and 1,030 GFLOPS of double precision floating point performance in a 1U chassis  IEEE 754 single &amp; double floating point precision  Up to 6 or 12 GB dedicated DDR5 memory (organized as 3GB per  Tesla C2050 GPU and 6GB per Tesla C2070 GPU)  93% Gold level 1400W energy efficient power supply  Supports one low profile PCI-E 2.0 x4 add-on card (in x16 slot)  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect.  Utilizing Intel® 5520 chipset, with integrated memory controllers for each processor, and with Intel® QuickPath architecture up to 6.40 GT/s  Up to 96GB of Reg. ECC DDR3 1333/1066/800 MHz memory  6 x hot-swap 2.5" SATA drive bays  Onboard Matrox graphics controller  IPMI 2.0 with virtual media over LAN and KVM-over-LAN  Dual Gigabit Ethernet  17.2" x 1.7" x 28.2" (W x H x D) system dimension</p>	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	Xn-4101G	<p>Helios 1,920-Core 4U Supercomputing Server</p> <p>Delivers eight Teraflops of parallel supercomputing performance, 1,920 cores, and two ultra fast Intel® Xeon® 5600 Series (Westmere- EP) processors  Industry's first massively multi-threaded architecture with 240-cores  Many-core architecture delivers optimum scaling across HPC applications.  Scales to solve the world's most important computing challenges more quickly and accurately, and at lower power and TCO  Optimized for scientific computing, delivering up to 15x cost savings, 20x lower power, and 250x the performance than traditional 1U rackoptimized servers or desktop workstations.  Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs.  High-efficiency computing platform for energy-conscious organizations.  NVIDIA CUDAT Technology unlocks the power of Tesla many-core computing products.  Fully utilizes the power of the next-generation Intel® Microarchitecture, automatically increases processor frequency and utilizes hyper-threading when needed.  Ideal for life sciences, ge sciences, engineering &amp; sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil &amp; gas applications.  Up to eight Tesla processors (240 computing cores per processor, 1,920 cores total)  Delivers up to eight teraflops in a tower chassis  IEEE 754 single &amp; double floating point precision  Up to 32 GB dedicated memory (organized as 4.0 GB per GPU)  Up to 8x 512-bit GDDR3 memory interface (organized as a 512-bit interface per GPU)  Up to 816 GB/sec memory bandwidth (102 GB/s per GPU to local memory)  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Intel® 5520 chipset, with integrated memory controllers for each processor  Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)  Up to 144GB DDR3 Reg. ECC 1333/1066 memory</p>	.us	Three-year parts and labor warranty	N	Server Appliance

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect 1 x 3.5" internal hard disk drive bay System dimension: 6.93" x 17.245" x 27.96" / 176 x 438 x 710 mm (H x W x D)				
132-8	ACMA	Xn-F4101G	Helios 3,584-Core 4U Supercomputing Server  The fastest GPU server available, with up to 3,584 GPU cores, 8.24 Teraflops of single precision floating point, and 4.12 Teraflops of double precision floating point performance in a 4U chassis  Powered by the massively parallel CUDA architecture, transforming a workstation to perform like a small cluster at 1/20th the power consumption and 1/10th the cost Supports two Tesla C2050/C2070 GPU cards (448 computing cores per card, 896 cores total) Delivers 2.06 Teraflops of single precision floating point and 1,030 GFLOPS of double precision floating point performance in a single chassis Offers protection of data in memory to enhance data integrity and reliability for applications. Register files, L1/L2 caches, shared memory, and DRAM all are ECC protected NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand NVIDIA® Parallel DataCache™ Technology, accelerating algorithms such as physics solvers, ray-tracing, and sparse matrix multiplication where data addresses are not known beforehand Ideal for life sciences, geosciences, engineering & sciences, molecular biology, medical diagnostics, electronic design automation (EDA), government and defense, visualization, financial modeling, and oil & gas applications. Up to eight Tesla C2050/C2070 GPU cards (448 computing cores per card, 3,584 cores total) Delivers 8.24 Teraflops of single precision floating point and 4.12 Teraflops of double precision floating point performance in a 4U chassis IEEE 754 single & double floating point precision Up to 24 or 48 GB dedicated DDR5 memory (organized as 3GB per Tesla C2050 GPU and 6GB per Tesla C2070 GPU) Up to 8x 384-bit GDDR5 memory interface (organized as a 384-bit interface per GPU) Up to 1.152 TB/sec memory bandwidth (144 GB/s per GPU to local memory) Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores & 12 threads, and 12MB L2 cache per processor Intel® 5520 chipset, with integrated memory controllers for each processor Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Up to 144GB DDR3 Reg. ECC 1333/1066 memory Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect 1 x 3.5" internal hard disk drive bay System dimension: 6.93" x 17.245" x 27.96" / 176 x 438 x 710 mm (H x W x D)	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	5003179	Tesla S1070-400 1U Computing Server  Industry's first massively multi-threaded architecture with a 240-processor computing core per processor. Many-core architecture delivers optimum scaling across HPC applications. Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs. High-efficiency computing platform for energy-conscious organizations. NVIDIA CUDA™ technology unlocks the power of Tesla many-core computing products. Seamlessly able to fit into existing HPC environments. Four Tesla 1.296 GHz processors (240 computing cores per processor, 960 cores total) Delivers four teraflops in a 1U chassis with a typical energy footprint of only 700 watts IEEE 754 single & double floating point precision 16 GB dedicated memory (organized as 4.0 GB per GPU) 4x 512-bit GDDR3 memory interface (organized as a 512-bit interface per GPU) 408 GB/sec memory bandwidth (102 GB/s per GPU to local memory) Standard 1U rackmount chassis Connects to host server via cabling to a PCI Express x16 host adapter card (included), optional PCI Express x8 host adapter card	\$.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	5003178	Tesla S1070-500 1U Computing Server  Industry's first massively multi-threaded architecture with a 240-processor computing core per processor. Many-core architecture delivers optimum scaling across HPC applications. Scale to thousands of processor cores to solve large-scale problems by splitting the problem across multiple GPUs. High-efficiency computing platform for energy-conscious organizations. NVIDIA CUDA™ technology unlocks the power of Tesla many-core computing products. Seamlessly able to fit into existing HPC environments. Four Tesla 1.144 GHz processors (240 computing cores per processor, 960 cores total) Delivers four teraflops in a 1U chassis with a typical energy footprint of only 700 watts	.us	Three-year parts and labor warranty	N	Server Appliance

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>IEEE 754 single &amp; double floating point precision  16 GB dedicated memory (organized as 4.0 GB per GPU)  4x 512-bit GDDR3 memory interface (organized as a 512-bit interface per GPU)  408 GB/sec memory bandwidth (102 GB/s per GPU to local memory)</p> <p>Standard 1U rackmount chassis  Connects to host server via cabling to a PCI Express x16 host adapter card (included), optional PCI Express x8 host adapter card</p>				
132-8	ACMA	5003285	<p>Tesla S2050 1U GPU Computing Server</p> <p>GPUs powered by the massively parallel CUDA architecture  IEEE 754 single and double Precision floating point units  ECC Support  Up to 6GB of GDDR5 memory per GPU  NVIDIA® Parallel DataCache™  NVIDIA® GigaThread™ Engine  Asynchronous Transfer  System Monitoring Features  High Speed, PCIe Gen 2.0 Data Transfer  Form Factor: 1.71" * 17.425" * 28.5" (H * W * D)  # of GPU Cores: 1,792  GPU Memory Speed: 1.55 GHz  GPU Memory Interface: 384-bit  GPU Memory Bandwidth: 148GB/sec  Single Precision floating point performance (peak): 4.13 Teraflops  Double Precision floating point performance (peak): 2.06 Teraflops</p> <p>Total Dedicated Memory: 12GB GDDR5 (4 x 3GB)  Power Consumption: 900W (typical); 1,200W (maximum)  System Interface: PCIe x16 Gen2  Software Development Tools  CUDA C/C++/Fortran, OpenCL, DirectCompute Toolkits, NVIDIA Parallel Nsight™</p>	.us	Three-year parts and labor warranty	N	Server Appliance
132-8	ACMA	GPU-1100F	<p>Helios 1600-Core FireStream Personal Supercomputer</p> <p>Parallel processing architecture with up to 1600 stream cores per system  N Server  Appliance  Massively parallel, programmable GPU architecture, providing unprecedented performance/watt and performance/\$  ATI Stream SDK leverages open source technology and software technology partners to provide a robust, open, multi-layer development environment on 64-bit Linux and Windows  Open systems approach access to high level tools from multiple 3rd party developers  Ideal for the most demanding compute-intensive, data-parallel tasks, including:  Climate research  Computational chemistry and biology  Engineering analysis  Financial analysis  Genetic research  Oil and gas exploration  Graphics rendering  Security  Seismic processing  Up to two ATI FireStream™ 9270 processors (800 computing cores per processor, 1,600 cores total)  Delivers up to 2.4 teraflops Single Precision or 480 gigaflops Double Precision floating point performance (peak) in a 1U chassis</p> <p>Up to 4GB dedicated memory (organized as 2.0 GB per GPU)  Up to 2x 256-bit GDDR5 memory interface (organized as a 256-bit interface per GPU)  Up to 217.6 GB/sec memory bandwidth (108.8 GB/s per GPU to local memory)  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Intel® 5520 chipset, with integrated memory controllers for each processor  Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)  Up to 96GB DDR3 Reg. ECC 1333/1066 memory  Server management: IPMI 2.0 with virtual media over LAN and KVMover- LAN Intelligent server IPMI management tool with GPU status information  Supported Language: Brooks+ (for ATI Stream SDK v1.4)  Supported Operating Systems: Microsoft® Windows® XP SP3 (32-bit/64-bit), Microsoft® Windows® Vista® SP1 (32-bit/64-bit), Microsoft® Windows® 7® (32-bit/64-bit), Red Hat® Enterprise Linux® (RHEL) 5.1, 5.2 (32-bit/64-bit), SUSE Linux® Enterprise Server (SLES) 10 SP2 (32-bit/64-bit), openSUSE™ 11.0 (32-bit/64-bit)</p>			N	Server Appliance

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			Supported Compilers: Microsoft® Visual Studio® (MSVS) 2005, 2008, GNU Compiler Collection (GCC) 4.1.2 System dimension: 1.7" x 17.2" x 28.2" / 43 x 437 x 716 mm (H x W x D)				
132-8	ACMA	PGC-2504	<b>GPU Clusters</b> Helios PGC-2504 4-node GPU Cluster	.us	Three-year parts and labor warranty	N	Multi Node Server
			Up to 17x lower cost, 21x lower power consumption, and 60% less space than traditional 1U servers Up to 86.94 Teraflops of single precision performance and 7,266 Gigafllops of double precision performance per cluster Up to 336GB dedicated GPU memory and 8,568GB/sec memory bandwidth Up to 42 Six-Core / Quad-Core AMD or Intel processors on host systems Up to 126TB hot swap shared storage on host systems QDR InfiniBand fabric 4-node Tesla S1070 Preconfigured GPU Cluster 16 Tesla T10 GPUs 16 Dual-socket Quad-core Xeon E5620 2.4 GHz 2 Dual-socket Quad-core Xeon E5620 2.4 GHz 64GB GPU memory, Up to 384GB 1333/1066/800MHz ECC Reg CPU memory Up to 32TB SATA drives QDR Infiniband on each node Cisco 1U 20-port Gigabit Ethernet Switch 1U 36 4X QDR ports Infiniband switch Rocks+ software with 3-year support				
132-8	ACMA	PGC-2508	Helios PGC-2508 8-node GPU Cluster	.us	Three-year parts and labor warranty	N	Multi Node Server
			Up to 17x lower cost, 21x lower power consumption, and 60% less space than traditional 1U servers Up to 86.94 Teraflops of single precision performance and 7,266 Gigafllops of double precision performance per cluster Up to 336GB dedicated GPU memory and 8,568GB/sec memory bandwidth Up to 42 Six-Core / Quad-Core AMD or Intel processors on host systems Up to 126TB hot swap shared storage on host systems QDR InfiniBand fabric 8-node Tesla S1070 Preconfigured Cluster 32 Tesla T10 GPUs 32 Dual-socket Quad-core Xeon E5620 2.4 GHz 2 Dual-socket Quad-core Xeon E5620 2.4 GHz 128GB GPU memory, Up to 768GB DDR3 1333/1066/800MHz ECC Reg CPU memory Up to 64TB SATA drives QDR Infiniband on each node Cisco 1U 20-port Gigabit Ethernet Switch 1U 36 4X QDR ports Infiniband switch Rocks+ software with 3-year support				
132-8	ACMA	PGC-2405	Helios PGC-2405 5-Node GPU Cluster	.us	Three-year parts and labor warranty	N	Multi Node Server
			Up to 17x lower cost, 21x lower power consumption, and 60% less space than traditional 1U servers Up to 86.94 Teraflops of single precision performance and 7,266 Gigafllops of double precision performance per cluster Up to 336GB dedicated GPU memory and 8,568GB/sec memory bandwidth Up to 42 Quad-Core AMD or Intel processors on host systems Up to 126TB hot swap shared storage on host systems QDR InfiniBand fabric 4 Tesla S1070 1U GPU system with 960 CUDA cores 16 x Tesla T10 GPUs 8 x Quad-Core Intel Xeon X5550 (2.66 GHz Nehalem) 95 watt processors (two per host server) 2 x Quad-Core Intel Xeon X5550 (2.66 GHz Nehalem) 95 watt processors on head node server 64GB GPU memory (16GB per S1070) 24GB CPU DDR3 1333MHz ECC Registered memory per host server				Server
			Supports up to 384GB DDR31333/1066/800MHz ECC Reg CPU memory 24GB CPU DDR3 1333MHz ECC Registered memory on head node server Supports up to 96GB DDR31333/1066/800MHz ECC Reg CPU memory on head node server 1 x slim DVD-RW SATA optical drive per host server 1 x 3.5" 146GB 15000RPM 16MB cache SAS 3.0Gbps Enterprise				

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>HDD per host server  Supports up to 32TB SATA/SAS storage capacity on host servers  1 x PCI-Express x8 4-port SAS/SATA RAID controller card per host server  With RAID level 0, 1, 5, 6, 10, 50 and Single Disk support  Online Capacity Expansion and RAID Level Migration  1 x slim DVD-RW SATA optical drive on head node server  1 x 3.5" 600GB 15,000RPM 16MB cache SAS 6.0Gbps Enterprise  HDD drive on head node server  Supports up to 4TB SATA/SAS storage capacity on head node server  1 x PCI-Express x8 4-port SAS/SATA RAID controller card on head node server  With RAID level 0, 1, 5, 6, 10, 50 and Single Disk support  Online Capacity Expansion and RAID Level Migration  24U cluster cabinet  1 x PCI-E Gen2 x16 GPU Host Interface Card (GHIC) &amp;  1 x PCI-E Gen2 x16 Host Interface Card (HIC) per host server  24-port Gigabit Ethernet + 2-port Mini-GBIC Switch  1U 17" TFT console 8-port KVM switch with Touchpad pointing device  5U 4200 watt / 6000VA Uninterruptable Power Supply (UPS)  120V battery pack with 1,920 Volt-Amp-Hour Capacity  System dimension: 47.19" x 23.62" x 42.13" (HxWxD)</p>				
132-8	ACMA	PGC-4204	<p>Helios PGC-4204 4-node Tesla 20-Series GPU Cluster</p> <p>Up to 10x lower cost, 20x lower power consumption, and 60% less space than traditional 1U servers  Up to 86.52 Teraflops of single precision performance and 43.26  Teraflops of double precision performance per cluster  Up to 504GB dedicated GPU memory  Up to 84 12-Core AMD or 6-Core Intel processors on host systems</p> <p>Up to 252TB hot swap shared storage on host systems  QDR InfiniBand fabric  4-node Tesla S2050 Preconfigured GPU Cluster  16 Tesla 20-Series C2050 GPUs  16 Dual-socket Quad-core Xeon E5620 2.4 GHz  2 Dual-socket Quad-core Xeon E5620 2.4 GHz  48GB DDR5GPU memory w/ S2050  Up to 384GB 1333/1066/800MHz ECC Reg CPU memory  Up to 32TB SATA drives  QDR Infiniband on each node  Cisco 1U 20-port Gigabit Ethernet Switch  1U 36 4X QDR ports Infiniband switch  Rocks+ software with 3-year support</p>	.us	Three-year parts and labor warranty	N	Multi Node Server
132-8	ACMA	PGC-4208	<p>Helios PGC-4208 8-node Tesla 20-Series GPU Cluster</p> <p>Up to 10x lower cost, 20x lower power consumption, and 60% less space than traditional 1U servers  Up to 86.52 Teraflops of single precision performance and 43.26  Teraflops of double precision performance per cluster  Up to 504GB dedicated GPU memory  Up to 84 12-Core AMD or 6-Core Intel processors on host systems  Up to 252TB hot swap shared storage on host systems  QDR InfiniBand fabric  8-node Tesla S2050 Preconfigured GPU Cluster  32 Tesla 20-Series C2050 GPUs  32 Dual-socket Quad-core Xeon E5620 2.4 GHz  2 Dual-socket Quad-core Xeon E5620 2.4 GHz  96GB DDR5GPU memory w/ S2050, &amp; 192GB DDR5GPU memory w/ S2070  Up to 768GB DDR3 1333/1066/800MHz ECC Reg CPU memory  Up to 64TB SATA drives  QDR Infiniband on each node  Cisco 1U 20-port Gigabit Ethernet Switch  1U 36 4X QDR ports Infiniband switch  Rocks+ software with 3-year support</p>	.us	Three-year parts and labor warranty	N	Multi Node Server

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
132-8	ACMA	VCS-2n	Helios 4-GPU Visual Computing System	.us	Three-year parts and labor warranty	N	Server
			<p>Supports four high performance workstation graphics cards and 960 GPU rendering cores in a single chassis, delivering unmatched graphics compute per cubic centimeter, and providing the highest visual compute density enabling breakthrough levels of capability and productivity</p> <p>Combines high-performance graphics and high-performance computation for interactive analysis of complex, multivariate data, and deliver results that push visualization beyond traditional 3D</p> <p>Enables graphics-intensive, high-density visual computing and scales to meet the most demanding professional applications requirements</p> <p>Optimized for digital content creation (DCC), computer-aided design (CAD), animation, 3D modeling visualization and visual simulation applications</p> <p>Supports NVIDIA® CUDA™ programming environment , a revolutionary parallel computing architecture that enables breakthrough performance in areas such as interactive ray tracing, video processing, engineering analysis, finite element analysis, and computational fluid dynamics</p> <p>Supports all industry-leading professional visualization software application, delivering extraordinary graphics and application performance and unmatched image quality</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Intel® 5520 Chipset</p> <p>Integrated memory controllers for each processor</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies</p> <p>Up to 64GB DDR3 800/1066/1333 RDIMM/UDIMM memory (4)+(4) DIMM slots</p> <p>Up to four high performance workstation graphics cards and 960 GPU rendering cores in a single chassis</p> <p>Supports up to 32x Full-Scene Antialiasing (FSAA), OpenGL 3.2, Shader Model 4.0, Microsoft DirectX 10.0, advanced color Compression, early Z-Cull, fast 3D texture transfer, 8K texture and render processing, infinite length vertex and pixel programs and dynamic flow control frame synchronization</p> <p>Each GPU supports a maximum Display Resolution Digital of 2560x1600 @ 60Hz</p> <p>2 x Gigabit Ethernet connections</p> <p>6 x internal SATA 3.0Gb/s port s with RAID 0, 1, 10, 5 support</p> <p>8 x internal SAS ports (with 2 x Mini-SAS connectors) and support for RAID 0, 1, 1E</p> <p>Optional SATA/SAS RAID controller card with RAID 0, 1, 10, 5, 6 support</p> <p>4 x PCIe 2.0 x16</p> <p>1 x PCI-E Gen.2 x8 slot (w/ x4 link)</p> <p>1 x PCI-E Gen.2 x4 slot &amp; 1 x PCI 32-bit slot</p> <p>On-board Trusted Platform Management (TPM) 1.2</p> <p>IPMI 2.0 compliant baseboard management controller (BMC) /</p> <p>Supports storage over IP and remote platform-flash/ BIOS update /</p> <p>USB 2.0 virtual hub</p> <p>Black color quiet tower chassis with transparent side window</p> <p>Front I/O: 4 x USB2.0</p> <p>Power supply: 1,200 – 1,500 watt EPS/ATX12V silent P/S</p> <p>Fans included: 1 x 140x140x25mm blue LED, 1000 rpm, 16 dBA or 120x120x25mm front (intake) fan; 1 x 120x120x25mm TurboFan, 1300 rpm, 17 dBA rear (exhaust) fan</p> <p>7 x 5.25" drive bays</p> <p>1 x 3.5" external drive bay (convertible from 5.25")</p> <p>7 x 3.5" Internal drive bays</p> <p>System dimension: 23.6" x 9.6" x 24.6" / 600 x 245 x 625 mm (H x W x D)</p>				
132-8	ACMA	5003211	Quadro Plex 2200 D2 Deskside Visual Computing System	.us	1 year parts and labor	N	Server
			<p>2 x Quadro FX 5800 GPUs</p> <p>480 CUDA processor cores</p> <p>8 GB (4GB/GPU) frame buffer</p> <p>Optional Quadro G-Sync</p> <p>4 dual-link DVI display channels</p> <p>2 displayPorts</p> <p>SLI Mosaic Mode</p> <p>Shader Model 4.0</p> <p>NVIDIA® CUDA™ Parallel Computing Processor</p> <p>Genlock/frame lock</p> <p>Frame Synchronization</p> <p>64x SLI FSAA</p> <p>Stereo</p> <p>PCI Express x8 or x16 connection, Small Form Factor, Passive (10W)</p> <p>2M (6.5 foot) NVIDIA Quadro Plex Interconnect Cable</p> <p>640W Max 110/240 VAC autosensing worldwide power supply</p> <p>40dB acoustics</p> <p>Tower Desktop (9.49" H x 5.94" W x 20.55" D) or 3U Rack Mount (3U H x 8.5" W x 20.55" D)</p> <p>18.6lb weight</p>				

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
132-8	ACMA	500321A	<p>Quadro Plex 2200 S4 1U Visual Computing System</p> <p>4 x Quadro FX 5800 GPUs            960 CUDA processor cores            16 GB (4GB/GPU) frame buffer            Shader Model 4.0            NVIDIA® CUDA™ Parallel Computing Processor            64x SLI FSAA            PCI Express x8 or x16 connection, Small Form Factor, Passive (10W)</p> <p>0.5M or 2.0M Quadro Plex Interconnect Cable            1200W Max 110/240 VAC autosensing worldwide power supply            Idle 45 dB, Max 72 dB acoustics            1U Rack Mount (1.75"H x 17.4"W x 31.0" D)</p>	.us	1 year parts and labor	N	Server
132-8	ACMA	Xn-1201	<p><u>1U Servers</u>            Helios 1U 4 x 3.5" Drive Xeon Storage Server</p> <p>Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor            Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies            Features an impressive array of four hot-swap 3.5" SATA or SAS drives in a 1U standard depth form factor            Provides the most energy-efficient computing and virtualization performance            Dynamic scalability for efficient performance on demand            Features high efficiency power supplies, processors, hard disks, and memory to reduce power consumption and heat output            Provides flexible solutions for server and storage applications including media servers, database servers, application servers, and email servers            Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor            Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)            Intel® 5520 Chipset            12 x DDR3 memory DIMMs through 6 memory channels            Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory            2 x PCI-E x8 2.0 slots on left slot (full-height / full-length)            1 x slot for 2 Gigabit LAN ports on right side            On-board video controller            On-board dual Gigabit Ethernet connections            On-board six-port SATA 3Gb/s controller            RAID level support: RAID 0, 1, 5, 10 support (Windows), RAID 0, 1, 10 support (Linux)            Optional SAS or SATA RAID controller card with support for RAID 0, 1, 10, 5, 6, 50 and JBOD            1U rack-optimized chassis            1 x 1U SAS / SATA backplane            Supports four hot swap 3.5" SAS/SATA hard disk drives            4 x counter-rotating fans w/ Optimal Fan Speed Control            650 watt redundant power supply            On board BMC (Baseboard Management Controllers)            Supports IPMI2.0, media/KVM over LAN            System dimension: 1.7" x 16.8" x 26" (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment
132-8	ACMA	Xn-1202	<p>Helios 1U 8 x 2.5" Drive Xeon Storage Server</p> <p>Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor            Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies            Features an impressive array of eight hot-swap 2.5" SATA or SAS drives in a 1U standard depth form factor            Provides the most energy-efficient computing and virtualization performance            Dynamic scalability for efficient performance on demand            Features high efficiency power supplies, processors, hard disks, and memory to reduce power consumption and heat output            Provides flexible solutions for server and storage applications including media servers, database servers, application servers, and email servers            Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor            Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)            Intel® 5520 Chipset            12 x DDR3 memory DIMMs through 6 memory channels            Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory            1 x PCI-E x8 2.0 expansion slot            On-board video controller            On-board dual Gigabit Ethernet connections            On-board six-port SATA 3Gb/s controller</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>RAID level support: RAID 0, 1, 5, 10 support (Windows), RAID 0, 1, 10 support (Linux)  Optional SAS or SATA RAID controller card with support for RAID 0, 1, 10, 5, 6, 50 and JBOD  1U rack-optimized chassis  1 x 1U SAS / SATA backplane  Supports eight hot swap 2.5" SAS/SATA hard disk drives  4 x counter-rotating fans w/ Optimal Fan Speed Control  650 watt redundant power supply  On board BMC (Baseboard Management Controllers)  Supports IPMI2.0, media/KVM over LAN  System dimension: 1.72" x 17.2" x 23.5" (H x W x D)</p>				
132-8	ACMA	Xn-1205	<p>Helios 1U Two Node Xeon Server</p> <p>Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies  Supports two independent server nodes in a 1U chassis  Support up to 24 cores in a 1U chassis  Supports two 3.5" hot-swap SATA drives per node  Supports one low profile PCI-Express x16 Gen 2.0 expansion card per node  Ideal to be used as general-purpose server, high-end enterprise server, SQL server, High performance computing cluster (HPCC), explicitly parallel instruction computing server (EPIC)  Intel® 5520 Chipset  Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Each node supports 12 x DDR3 memory DIMMs through 6 memory channels and 96GB DDR3 1333/1066/800 MHz Reg. ECC memory</p> <p>One low profile PCI-Express x16 Gen 2.0 expansion card per node</p> <p>On-board video controller per node  On-board dual Gigabit Ethernet connections per node  On-board six-port 3Gb/s controller  RAID level support: RAID 0, 1, 5, 10 support (Windows) RAID 0, 1, 10 support (Linux)  Optional SAS or SATA RAID controller card with support for RAID 0, 1, 10, 5, 6, 50 and JBOD  Each node supports 1 x optional infiniband port (Connect-X QDR or DDR)  Each node supports 1 x dedicated LAN for system management  On board BMC (Baseboard Management Controllers) supports  IPMI2.0, media/KVM over LAN  1U rack-optimized chassis  1x 1U SATA backplane  Supports two hot swap 3.5" SATA hard disk drives per node  3 x counter-rotating fans w/ Optimal Fan Speed Control;  1000W High-efficiency (Gold level) cold swappable power supply  System dimension: 1.7" x 17.2" x 27.75" (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Multi Node Server
132-8	ACMA	X1402	<p>Helios 1U 4 x UP Xeon Node Server</p> <p>High-density 1U four independent single socket nodes in standard 1U system, increasing performance per square foot by saving rack expense  Supports up to four Intel® Xeon® processor 3400 series, delivering significant performance increase with new micro-architecture and delivers world-class performance with superior energy/power efficiency  Two independently powered and swappable compute trays, greatly minimizing downtime  Dedicated on-board management port, providing a flexible and secure management environment  Supports advanced management features, helping to lower IT operating costs while increasing system uptime  Optimized cable and thermal design for ease of deployment and significant savings in cooling cost  Two high-efficiency power supplies, providing redundancy between the server nodes  Ideal for use as a hosting server, web server, data center environments, or for businesses with space and cost sensitive applications  Supports one high performance Intel® Xeon processor 3400 series, based on the Intel® Nehalem Core™ microarchitecture  Intel® 3420 server chipset  4 x RDIMMs DDR3 800/1066/1333 memory through dual memory channels  Supports 16GB registered memory  On-board graphics w/ 64 MB DDR2 memory, 8 MB allocated to graphics  2 x on-board high performance Intel® Gigabit Ethernet Controller 82574L  4 x 3.5" fixed SATA (3.0Gb/s) hard disk drive bays (1 x per node)  Intel® System Management Software 3.x  Intel® Deployment Assistant  IPMI 2.0 onboard with optional Intel® Remote Management Module 3 Lite, AXXRMM3LITEV  1U rack-optimized chassis</p>	.us	Three-year parts and labor warranty	N	Multi Node Server

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>6 x fixed cooling blowers with ducts  High-efficiency (80-plus silver) 450-watt non-redundant PSU  Front panel features for each node include: LEDs for two NIC, system health, power and UID, button for UID and power, 2 x USB ports  System dimension: 1.7" x 17.3" x 26.8" (44mm x 440mm x 680mm) (H x W x D)</p>				
132-8	ACMA	H1201	<p>Helios 1U 4-Drive Opteron Storage Server</p> <p>Supports eight 8/12-core AMD Socket G34 Opteron™ 6000 Series processors, with up to 24 cores in a 1U chassis  Storage flexibility with up to four hot-swap SATA or SAS drives  Provides the most energy-efficient computing and virtualization performance  Supports C1E power management (for up to a 35% platform-level power savings than previous generation of processors), Cool Speed, Precision Thermal Monitor, Remote Power Management Interface, Dual Dynamic Power Management™ (DDPM), CoolCore, Enhanced PowerNow!, Wide Floating Point Accelerator, Memory Optimizer Technology, Balanced Smart Cache, AMD-Vc (Rapid Virtualization Indexing), Enhanced Virus Protection (EVP), and Open Platform Management Architecture (OPMA)</p> <p>Ideal for highly threaded applications that drive the needs for more cores and greater scalability, including file, database, web and email, storage appliance, virtualization, HPC and medical applications</p> <p>Up to four 8/12-core AMD Socket G34 (1944-pin) Opteron™ 6000 Series processors, each with 8x or 12x 512K L2 cache, 12MB L3 cache, and 65W, 80W, or 105W power  Up to 48 cores in a 1U chassis  AMD SR56x0 and SP5100 chipset  6400MT/s HyperTransport  32 DDR3 memory DIMM slots  Up to 512GB RDIMM or UDIMM DDR3 ECC 800/1066/1333 memory</p> <p>On-Board video controller  On-Board dual Gigabit Ethernet connections  1 x PCI-e 2.0 x16 slot  On-board six-port SATA 3Gb/s controller  Supports RAID 0, 1, 10  Optional SAS/SATA RAID controller card w/ RAID 0, 1, 10, 5, 6, 50 and JBOD support  Optional IPMI 2.0 Remote Management Module  1U rack-optimized chassis  1x SAS backplane w/ SES2  3 x hot swap SAS or SATA hard disk drive bays  6 x heavy-duty counter-rotating PWM fans with optimal fan speed control  Redundant 1400W high-efficiency power supply with PMBus  System dimension: 1.7" x 17.2" x 27.75" / 43mm x 437mm x 705mm (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment
132-8	ACMA	H1202	<p>Helios 1U 4-Processor Opteron Storage Server</p> <p>Supports eight 8/12-core AMD Socket G34 Opteron™ 6000 Series processors, with up to 96 cores in a 2U chassis  Storage flexibility with up to eight hot-swap SATA or SAS drives  Provides the most energy-efficient computing and virtualization performance  Supports C1E power management (for up to a 35% platform-level power savings than previous generation of processors), Cool Speed, Precision Thermal Monitor, Remote Power Management Interface, Dual Dynamic Power Management™ (DDPM), CoolCore, Enhanced PowerNow!, Wide Floating Point Accelerator, Memory Optimizer Technology, Balanced Smart Cache, AMD-Vc (Rapid Virtualization Indexing), Enhanced Virus Protection (EVP), and Open Platform Management Architecture (OPMA)</p> <p>Ideal for highly threaded applications that drive the needs for more cores and greater scalability  Up to two 8/12-core AMD Socket G34 (1944-pin) Opteron™ 6000 Series processors, each with 8x or 12x 512K L2 cache, 12MB L3 cache, and 65W, 80W, or 105W power  Up to 24 cores in a 1U chassis  AMD SR56x0 and SP5100 chipset  6400MT/s HyperTransport  16 DDR3 memory DIMM slots  Up to 256GB RDIMM or UDIMM DDR3 ECC 1066/1333 memory  On-Board video controller  On-Board dual Gigabit Ethernet connections  1 x VGA, 1 x COM, 2 x Gbit LAN, 4 x USB 2.0 ports  1 x dedicated LAN for system management (IPMI2.0)  On-board six-port SATA 3Gb/s controller  Supports RAID 0, 1, 0+5  Optional SAS/SATA RAID controller card w/ RAID 0, 1, 10, 5, 6, 50 and JBOD support  2 x PCI-E 2.0 x8 slots</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			Optional IPMI 2.0 Remote Management Module 1U rack-optimized chassis 4 x hot swap SATA/SAS hard disk drive bays 1 x slim DVD-ROM drive 4 x heavy-duty fans w/ optimal fan speed control 560W non-redundant high-efficiency gold level power supply System dimension: 1.7" (43mm) x 17.2" (437mm) x 25.6" (650mm) (H x W x D)				
132-8	ACMA	Xn-2201	<p><u>2U Servers</u> Helios 2U 8 x 3.5" Drive Xeon Storage Server</p> <p>Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies Features an impressive array of eight hot-swap SATA or SAS drives in a 2U standard depth form factor Provides the most energy-efficient computing and virtualization performance Dynamic scalability for efficient performance on demand Features high efficiency power supplies, processors, hard disks, and memory to reduce power consumption and heat output Provides flexible solutions for server and storage applications including media servers, database servers, application servers, and email servers Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Intel® 5520 Chipset 12 x DDR3 memory DIMMs through 6 memory channels Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory 7 x low profile slots, with 3 x PCI-E 2.0 x8 slots 1 x PCI-E x4 slot 1 x UIO slot 2 x PCI-X 100/133 slots On-board video controller On-board dual Gigabit Ethernet connections PCI Express SAS/SATA RAID controller card with RAID 0, 1, 5, and 6 support &amp; RAID spans 10, 50 and 60 2U rack-optimized chassis 1x SAS/SATA 3Gbps support w/ Enclosure Management</p> <p>Supports eight hot swap SAS, SATA, Ultra320 SCSI hard disk drives 7x low-profile full-length expansion slots 3x 80mm 6300 RPM fans 720 watt redundant power supply On board BMC (Baseboard Management Controllers) Supports IPMI2.0, media/KVM over LAN System dimension: 3.5" x 17.2" x 25.6" (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment
132-8	ACMA	Xn-2204	<p>Helios 2U 12 -Drive Xeon Storage Server</p> <p>Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies Features an impressive array of twelve hot-swap SATA or SAS drives in a 2U standard depth form factor Provides the most energy-efficient computing and virtualization performance Dynamic scalability for efficient performance on demand Features high efficiency power supplies, processors, hard disks, and memory to reduce power consumption and heat output Provides flexible solutions for server and storage applications including media servers, database servers, application servers, and email servers Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Intel® 5520 Chipset 12 x DDR3 memory DIMMs through 6 memory channels Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory 3 x PCI-E 2.0 x8 slots (1 x in x16 slot) 1 x PCI-E 2.0 x4 slot 2 x PCI-X 100/133 slots On-board video controller On-board dual Gigabit Ethernet connections PCI Express SAS/SATA RAID controller card with RAID 0, 1, 5, and 6 support &amp; RAID spans 10, 50 and 60 2U rack-optimized chassis 1x SAS/SATA 3Gbps support w/ Enclosure Management Supports twelve hot swap SAS or SATA hard disk drives 3x 80mm 6300 RPM fans</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
132-8	ACMA	Xn-2207	<p>800W (1 + 1) Redundant AC-DC high-efficiency power supply w/ PFC On board BMC (Baseboard Management Controllers) Supports IPMI2.0, media/KVM over LAN System dimension: 3.5" x 17.2" x 25.5" (H x W x D)</p> <p>Helios 2U Four Node Xeon Server</p> <p>Breakthrough performance-per-watt of 353 GFLOPS/kW Best performance-per-dollar High density (4 nodes and 12 3.5" HDD in 2U) Easy maintenance (swappable HDD, power supply, fans, and computing nodes) High availability (three hard disk drives per node with RAID5, optional redundant power supply) 93% high-efficiency power supply Supports one low profile PCI-Express x16 Gen 2.0 expansion card per node Ideal to be used as general-purpose server, high-end enterprise server, SQL server, High performance computing cluster (HPCC), explicitly parallel instruction computing server (EPIC) Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Intel® 5520 chipset Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Each node supports 12 x DDR3 memory DIMMs through 6 memorychannels, and supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory One low profile PCI-Express x16 Gen 2.0 expansion card per node</p> <p>On-board video controller per node On-board dual Gigabit Ethernet connections per node On-board SATA 3.0 Gb/s controller RAID level support: RAID 0, 1, 5, 10 support (Windows), RAID 0, 1, 10 support (Linux) Optional SAS or SATA RAID controller card with support for RAID 0, 1, 10, 5, 6, 50 and JBOD Supports 1 x optional infiniband port (Connect-X QDR or DDR) per node 1 x dedicated LAN for system management per node On board BMC (Baseboard Management Controllers) supports IPMI2.0, media/KVM over LAN 2U rack-optimized chassis Supports three hot swap 3.5" SATA hard disk drives per node 4 x 80mm heavy duty fans with fan speed control Single or redundant 1200 watt high-efficiency (Gold level) power supply System dimension: 3.5" x 17.2" x 28.5" (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Multi Node Server
132-8	ACMA	Xn-2208	<p>Helios 2U 14 -Drive Xeon Storage Server</p> <p>A flexible and high performance hardware platform for SAN, NAS, or dense application server Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies Storage flexibility with up to twelve hot-swap SATA or SAS drives &amp; two internal 2.5" dedicated OS drives Provides the most energy-efficient computing and virtualization performance Dynamic scalability for efficient performance on demand Features high efficiency power supplies, processors, hard disks, and memory to reduce power consumption and heat output An excellent storage server solution for media streaming, massive data warehousing, SAN storage, virtualization, NAS, iSCSI target, disk-to-disk backup, or exchange server applications Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Intel® 5520 Chipset 12 x DDR3 memory DIMMs through 6 memory channels Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory Expansion Slots: Includes 1 x full-height riser with three PCI Express 2.0 x8 wired slots (one x16 connector and two x8 connectors) Optional 1 x active butterfly riser card with 5 x PCI Express 2.0 x8 slots (three full-height/full-length and two full-height/low profile, plus I/O Expansion Module), OR Optional 1 x active butterfly riser card with 3 x PCI Express 2.0 x8 slots (three full-height/full-length I/O Expansion Module) Optional Intel® I/O Expansion Module (PCI Express 2.0 x8) Optional Intel® Remote Management Module 3 (Intel® RMM3) On-board video controller On-board dual Gigabit Ethernet connections with Intel® I/O Acceleration Technology &amp; Intel® I/O Virtualization Technology On-board six-port SATA 3Gb/s controller with Intel® Embedded Server RAID Technology (0,1,10), optional RAID 5 Optional PCIe SAS or SATA RAID controller card 2U rack-optimized chassis 1x SAS 3Gbps active expander backplane</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>Supports twelve hot swap SAS or SATA hard disk drives  Two internal 2.5" OS/booth hard disk drive bays  One slim-line SATA optical drive bay  4 x non redundant fans  2 x high efficiency ENERGY STAR compliance 760-watt power supply modules supporting redundant 1+ 1 power configurations  2 x chassis front handles (ears) for mounting system to cabinet  Intel® Deployment Assistant 3.0  Integrated baseboard Management controller with IPMI 2.0 support and option for KVM with dedicated NIC for remote management, remote KVM and media redirection  Intel® Intelligent Power Node Manager  System dimension: 17.56" (446mm) x 30.75" (781mm) x 3.43"(87mm) (H x W x D)</p>				
132-8	ACMA	H2201	<p>Helios 2U 8-Drive Optron Storage Server</p> <p>Supports eight 8/12-core AMD Socket G34 Optron™ 6000 Series processors, with up to 24 cores in a 2U chassis  Storage flexibility with up to eight hot-swap SATA or SAS drives  Provides the most energy-efficient computing and virtualization performance  Supports C1E power management (for up to a 35% platform-level power savings than previous generation of processors), Cool Speed, Precision Thermal Monitor, Remote Power Management Interface, Dual Dynamic Power Management™ (DDPM), CoolCore, Enhanced PowerNow!, Wide Floating Point Accelerator, Memory Optimizer Technology, Balanced Smart Cache, AMD-Vc (Rapid Virtualization Indexing), Enhanced Virus Protection (EVP), and Open Platform Management Architecture (OPMA)  Ideal for highly threaded applications that drive the needs for more cores and greater scalability, including file, database, web and email, storage appliance, virtualization, HPC and medical applications</p> <p>Up to two 8/12-core AMD Socket G34 (1944-pin) Optron™ 6000 Series processors, each with 8x or 12x 512K L2 cache, 12MB L3 cache, and 65W, 80W, or 105W power  Up to 24 cores in a 2U chassis  AMD SR56x0 and SP5100 chipset  6400MT/s HyperTransport  16 DDR3 memory DIMM slots  Up to 256GB RDIMM or UDIMM DDR3 ECC 1066/1333 memory  On-Board video controller  On-Board dual Gigabit Ethernet connections  1 x VGA, 1 x COM, 2 x Gbit LAN, 4 x USB 2.0 ports  1 x dedicated LAN for system management (IPMI2.0)  On-board six-port SATA 3Gb/s controller  Supports RAID 0, 1, 0+5  Optional SAS/SATA RAID controller card w/ RAID 0, 1, 10, 5, 6, 50 and JBOD support  2 x PCI-E 2.0 x8 slots  1 x UIO slot  Optional IPMI 2.0 Remote Management Module  2U rack-optimized chassis  8 x hot swap SATA/SAS hard disk drive bays  1 x slim DVD-ROM drive  4 x PWM fans w/ optimal fan speed control  720 watt high-efficiency gold level redundant power supply w/PM bus</p> <p>System dimension: 3.5" (89mm) x 17.2" (437mm)) x 25.5" (648mm) (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment
132-8	ACMA	H2202	<p>Helios 2U 12 -Drive Optron Storage Server</p> <p>Supports two quad-core (Shanghai) / six-core (Istanbul) AMD Optron 2300/2400 Series processors  Features PCI-Express 2.0 interfaces that increase the I/O data transfer rate to 5 GT/s  Supports Dual HT Links (HT3) to CPUs, enhancing system I/O bandwidth and performance  Provides the most energy-efficient computing and virtualization performance  Dynamic Scalability for efficient performance on demand  Supports Dual Dynamic Power Management™(DDPM), AMD CoolCore technology, Enhanced AMD PowerNow! Technology, AMD Wide Floating Point Accelerator, AMD Memory Optimizer Technology, AMD Balanced Smart Cache, AMD-V with Rapid Virtualization Indexing, Enhanced Virus Protection (EVP), and Open Platform Management Architecture (OPMA)  Features an impressive array of twelve hot-swap SATA or SAS drives in a 3U standard depth form factor  Ideal for applications such as file, database, web and email, storage appliance, virtualization, HPC and medical applications  Up to two quad-core (Shanghai) / six-core (Istanbul) AMD Optron 2300/2400 Series processors  1000MHz HyperTransport  NVIDIA nMCP55 Pro chipset  Up to 64GB DDR2 400/533/667/800 memory</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			2 x PCIe x8 slots 2 x 64-bit 133/100MHz PCI-X (3.3V) slots 2 x 64-bit 100MHz PCI-X (3.3V) slot On-board video controller On-board dual Gigabit Ethernet connections Optional PCIe SAS or SATA RAID controller card RAID level support: RAID 0, 1, 10, 5, 6, 50 and JBOD 2U rack-optimized chassis 1x SAS/SATA 3Gbps support w/ Enclosure Management 23 of 30 Supports eight hot swap SAS, SATA, Ultra320 SCSI hard disk drives 3x 80mm 6300 RPM fans 800 watt AC power supply w/ PFC Optional IPMI 2.0 Server Management Module System dimension: 3.5" x 17.2" x 25.5" (H x W x D)				
132-8	ACMA	H2207	Helios 2U Four Node Opteron Server  Supports eight 8/12-core AMD Socket G34 Opteron™ 6000 Series processors, with up to 96 cores in a 2U chassis Breakthrough performance-per-watt of 353 GFLOPS/kW Best performance-per-dollar Easy maintenance (swappable HDD, power supply, fans, and computing nodes) High availability (three hard disk drives per node with RAID5, optional redundant power supply) 93% high-efficiency power supply Supports one low profile PCI-Express x16 Gen 2.0 expansion card per node Ideal to be used as general-purpose server, high-end enterprise server, SQL server, High performance computing cluster (HPCC), explicitly parallel instruction computing server (EPIC) Up to two 8/12-core AMD Socket G34 (1944-pin) Opteron™ 6000 Series processors, each with 8x or 12x 512K L2 cache, 12MB L3 cache, and 65W, 80W, or 105W power Up to 96 cores in a 2U chassis AMD SR56x0 and SP5100 chipset 6400MT/s HyperTransport Each node supports 16 DDR3 memory DIMM slots & up to 256GB RDIMM or UDIMM DDR3 ECC 1066/1333 memory Each node supports One low profile PCI-Express x16 Gen 2.0 expansion card On-board video controller per node On-board dual Gigabit Ethernet connections per node On-board SATA 3.0 Gb/s controller RAID level support: RAID 0, 1, 5, 10 support (Windows), RAID 0, 1, 10 support (Linux) Optional SAS or SATA RAID controller card with support for RAID 0, 1, 10, 5, 6, 50 and JBOD 1 x optional infiniband port (Connect-X QDR or DDR) Server Management Per Node: 1 x dedicated LAN for system management On board BMC (Baseboard Management Controllers) supports IPMI2.0, media/KVM over LAN. 2U rack-optimized chassis Supports 3 x hot swap 3.5" SATA hard disk drives per node 4x PWM fans w/ optimal fan speed control 1400 watt high-efficiency gold level redundant power supply System dimension: 3.47" (88mm) x 17.25" (438mm) x 28.5" (724mm) (H x W x D)	.us	Three-year parts and labor warranty	N	Multi Node Server
1132-8	ACMA	Xn-3201	<u>3U &amp; 4U Servers</u> Helios 3U 16-Drive Xeon Storage Server  Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores & 12 threads, and 12MB L2 cache per processor Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies Features an impressive array of sixteen hot-swap SATA or SAS drives in a 3U standard depth form factor Provides the most energy-efficient computing and virtualization performance Dynamic scalability for efficient performance on demand Features high efficiency power supplies, processors, hard disks, and memory to reduce power consumption and heat output Provides flexible solutions for server and storage applications including media servers, database servers, application servers, and email servers Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores & 12 threads, and 12MB L2 cache per processor Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) Intel® 5520 Chipset 12 x DDR3 memory DIMMs through 6 memory channels Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory 3 x PCI-E 2.0 x8 slots (1 x in x16 slot) 1 x PCI-E 2.0 x4 slot 2 x PCI-X 100/133 slots On-board video controller	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>On-board dual Gigabit Ethernet connections  PCI Express SAS/SATA RAID controller card with RAID 0, 1, 5, and 6 support &amp; RAID spans 10, 50 and 60 RAID 0, 1, 5, 6, 10, 50, Single Disk support  Front I/O: 2 x USB2.0 ports, 1 x serial port  SATA/SAS backplane  Peripheral drive bays: 1 x slim CD-ROM bay; 1x slim FDD bay  16 x hot swap SAS/SATA 3.0Gbps HDD bays  2 x 80mm rear exhaust fans, 3 x 80mm hot swap fans  800 watt hot swap redundant power supply  On board BMC (Baseboard Management Controllers)  Supports IPMI2.0, media/KVM over LAN  5.2" x 17.2" x 25.5" (H x W x D)</p>				
132-8	ACMA	H3201	<p>Helios 3U 16-Drive Opteon Storage Server</p> <p>Supports two quad-core (Shanghai) / six-core (Istanbul) AMD Opteron 2300/2400 Series processors  Features PCI-Express 2.0 interfaces that increase the I/O data transfer rate to 5 GT/s  Supports Dual HT Links (HT3) to CPUs, enhancing system I/O bandwidth and performance  Provides the most energy-efficient computing and virtualization performance  Dynamic Scalability for efficient performance on demand  Supports Dual Dynamic Power Management™(DDPM), AMD CoolCore technology, Enhanced AMD PowerNow! Technology, AMD Wide Floating Point Accelerator, AMD Memory Optimizer Technology, AMD Balanced Smart Cache, AMD-V with Rapid Virtualization Indexing, Enhanced Virus Protection (EVP), and Open Platform Management Architecture (OPMA)  Features an impressive array of sixteen hot-swap SATA or SAS drives in a 3U standard depth form factor  Ideal for applications such as file, database, web and email, storage appliance, virtualization, HPC and medical applications  Up to two quad-core (Shanghai) / six-core (Istanbul) AMD Opteron 2300/2400 Series processors  1000MHz HyperTransport  NVIDIA nMCP55 Pro chipset  Up to 64GB DDR2 400/533/667/800 memory  2 x PCIe x8 slots  2 x 64-bit 133/100MHz PCI-X (3.3V) slots  2 x 64-bit 100MHz PCI-X (3.3V) slot  On-board video controller  On-board dual Gigabit Ethernet connections  Optional PCIe SAS or SATA RAID controller card  RAID level support: RAID 0, 1, 10, 5, 6, 50 and JBOD  3U rack-optimized chassis  Front I/O: 2 x USB2.0 ports, 1 x serial port  SATA/SAS backplane  Peripheral drive bays: 1 x slim CD-ROM bay; 1x slim FDD bay  16 x hot swap SAS/SATA 3.0Gbps HDD bays  2 x 80mm rear exhaust fans, 3 x 80mm hot swap fans  800 watt AC power supply w/ PFC  Optional IPMI 2.0 Server Management Module  System dimension: 5.2" x 17.2" x 25.5" (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment
132-8	ACMA	Xn-4201	<p>Helios 4U 24-Drive Xeon Storage Server</p> <p>Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies  Features an impressive array of twenty-four hot-swap SATA or SAS drives in a 4U standard depth form factor  Provides the most energy-efficient computing and virtualization performance  Features high efficiency power supplies, processors, hard disks, and memory to reduce power consumption and heat output  Provides flexible solutions for server and storage applications including media servers, database servers, application servers, and email servers  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Intel® 5520 chipset  Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)  Up to 96GB DDR3 1333/1066/800 MHz Reg. ECC memory  4U case with 24x 3.5" Hot-swap (SAS / SATA) drive bays  (1 + 1) Redundant 900W AC to DC power supply w/ PFC  PCI Express SAS/SATA RAID controller card with RAID 0, 1, 5, and 6 support &amp; RAID spans 10, 50 and 60  Integrated graphics  Dual Gigabit Ethernet LAN  3 x PCI-E 2.0 x8 (1 x in x16 slot)  1 x PCI-E 2.0 x4 slot</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>2 x PCI-X 100/133 slots Integrated 6-port SATA Controller with support for Raid levels 0,1, 10</p> <p>Slim 8X DVD SAS / SATA Hard Drive Backplane with SES2 3x 5000 RPM Hot-Swappable Cooling Fans 2x 5000 RPM Hot-Swappable Rear Exhaust Fans Optional IPMI 2.0 with Virtual Media Over LAN, KVM-Over-LAN, 3rd Dedicated LAN System dimension: 7" x 17.2" x 26" (HxWxD)</p>				
132-8	ACMA Xn-4202	Helios 4U 36-Drive Xeon Storage Server	<p>Supports 36 (24 front + 12 rear) 3.5" hot-swap drives in a 4U chassis, saving 2U (3.5" height) of rack space Fully utilizes the power of the next-generation Intel® 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Supports Trusted Execution, Advanced Encryption Security - New Instructions (AESNI), Turbo Boost, Intel® Virtualization, Intel® QuickPath Interconnect, and Intel® Hyper-Threading technologies Supports high-availability features such as redundant hot-pluggable cooling system, power supplies, and hot-swap drives. Ideal for corporate database/file server, data warehouse, media/streaming server, video-on-demand, ISCSI storage, digital image capture, security server applications and more! Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor Intel® 5520 chipset Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second) 18 x DDR3 memory DIMMs through 6 memory channels Supports 144GB DDR3 1333/1066/800 MHz Reg. ECC memory 2 x PCI-Express (x8) slots (1 in x16 slot) 1 x PCI-Express (x4) slot (in x8 slot) 1 x 64-bit 133MHz PCI-X (3.3V) slot 2 x 64-bit 133/100MHz PCI-X 3.3V slots 1 x UIO slot (PCI-E 2.0 x8 slot) On-board video controller On-board dual Gigabit Ethernet connections 4U rack-optimized chassis SAS / SATA hard drive backplane, 6Gb/s SAS supported 36 x (24 front + 12 rear) SAS/SATA hard disk drive bays Seven low profile expansion slots 7x 8cm hot-swap cooling fans for redundant cooling 1400W high-efficiency redundant (1+1) 1400W Gold Level power supply with PMBus Support for Intelligent Platform Management Interface (IPMI) v.2.0 System dimension: 7" x 17.2" x 27.5" / 178mm x 437mm x 699mm (HxWxD)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment
132-8	ACMA H4201	Helios 4U 24-Drive Opteron Storage Server	<p>Supports two quad-core (Shanghai) / six-core (Istanbul) AMD Opteron 2300/2400 Series processors Features PCI-Express 2.0 interfaces that increase the I/O data transfer rate to 5 GT/s Supports Dual HT Links (HT3) to CPUs, enhancing system I/O bandwidth and performance Provides the most energy-efficient computing and virtualization performance Dynamic Scalability for efficient performance on demand Supports Dual Dynamic Power Management™(DDPM), AMD CoolCore technology, Enhanced AMD PowerNow! Technology, AMD Wide Floating Point Accelerator, AMD Memory Optimizer Technology, AMD Balanced Smart Cache, AMD-V with Rapid Virtualization Indexing, Enhanced Virus Protection (EVP), and Open Platform Management Architecture (OPMA) Features an impressive array of twenty-four hot-swap SATA or SAS drives in a 4U standard depth form factor Ideal for applications such as file, database, web and email, storage appliance, virtualization, HPC and medical applications Up to two quad-core (Shanghai) / six-core (Istanbul) AMD Opteron 2300/2400 Series processors 1000MHz HyperTransport NVIDIA nMCP55 Pro chipset Up to 64GB DDR2 400/533/667/800 memory 2 x PCIe x8 slots 2 x 64-bit 133/100MHz PCI-X (3.3V) slots 2 x 64-bit 100MHz PCI-X (3.3V) slot On-board video controller On-board dual Gigabit Ethernet connections Optional PCIe SAS or SATA RAID controller card RAID level support: RAID 0, 1, 10, 5, 6, 50 and JBOD</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>4U rack-optimized chassis  SAS / SATA Hard Drive Backplane with SES2  24x 3.5" hot swap (SAS / SATA) drive bays  3 x 5000 RPM hot swappable cooling fans, 2 x 5000 RPM hotswappable rear exhaust fans  900 watt AC to DC (1 + 1) redundant power supply w/ PFC  Optional IPMI 2.0 Server Management Module  System dimension: 7" x 17.2" x 26" (H x W x D)</p>				
132-8	ACMA	3504	<p><u>Storage Solutions</u>  Helios iSCSI Storage Appliance</p> <p>High-density, feature rich iSCSI storage appliance designed for unified file and block storage management, delivering Network Attached Storage (NAS), iSCSI, InfiniBand and Fibre Channel Storage Area Network (SAN) functionality  Provides built-in virus protection while enabling the connection of multiple Network Interface Controllers, including Gigabit Ethernet, 10 Gigabit Ethernet, Fibre Channel and InfiniBand  Special features include: Data and Volume Replication, Volume Snapshot, Automatic Failover for iSCSI Volumes, WORM (write once, read many) and NDMP (Network Data Management Protocol)  Ideal for a variety of applications, including disk-based backup and restore, storage consolidation, and disaster recovery  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Intel® 5520 chipset  Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)  12 x DDR3 memory DIMMs through 6 memory channels  Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory  On-board video controller  Dual on-board Gigabit Ethernet Connections  A wide selection of SATA/SAS RAID controller cards with RAID 0, 1, 5, 6, 10, 50, Single Disk, JBOD support  Up to 4 hot swap drives in 1U, 12 hot swap drives in 2U, 16 hot swap drives in 3U, and 36 hot swap drives in 4U  Hot swap redundant power supply options  Multi-lane Mini-SAS/SATA 3Gb/s backplane, or 3Gb/s SAS Expander technology with Enclosure Management  Advanced Storage Management Features include:  Network Data Management Protocol (NDMP) v. 4 &amp; WORM (Write Once Read Many) support  Backup Functionality  Symantec Backup Exec agent (RALUS) to support versions 11, 12 and 12.5  Basic API Configuration  Volume and Data Replication &amp; Volume Snapshot  Asynchronous Volume Replication over WAN (pair to pair – multiple sources)  Improved random performance of iSCSI  Windows Server 2008 Clustering Support (persistent reservation SCSI-3)  Automatic Failover for iSCSI Volumes  iSCSI Initiator / iSCSI Target  Shadow Copy of OS for System Update  Task Mechanism with Scheduling  Network Bonding/Teaming  Supports Multiple Network Interface Card (NIC), Network UPS, Fibre Channel Interconnects, Multi-CPU, Hardware RAID  IP-SEC (Internet Protocol Security)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment
132-8	ACMA	2505	<p>Helios Windows Storage Server 2008 Storage Appliance</p> <p>Provides a solid mid-market to enterprise file storage and print server solution with easy manageability and powerful file serving features on a mature base storage server platform and using industry standard SAS JBOD hardware.  Provides the ability to deploy iSCSI SAN solutions which capitalize on the pre-existing LAN infrastructure and make use of the much more ubiquitous IP expertise available in most organizations  Delivers full integration with failover clusters, providing high availability storage for application servers and file storage  Delivers new storage capabilities, simplified deployment and easier management while assuring seamless synergy in customers'  Windows infrastructure in a cost-effective and high-performance platform  Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor  Intel® 5520 chipset  Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)  12 x DDR3 memory DIMMs through 6 memory channels  Supports 96GB DDR3 1333/1066/800 MHz Reg. ECC memory  On-board video controller  Dual on-board Gigabit Ethernet Connections  A wide selection of SATA/SAS RAID controller cards with RAID 0, 1, 5, 6, 10, 50, Single Disk, JBOD support  Up to 4 hot swap drives in 1U, 12 hot swap drives in 2U, 16 hot swap drives in 3U, and 36 hot swap drives in 4U  Hot swap redundant power supply options  Multi-lane Mini-SAS/SATA 3Gb/s backplane, or 3Gb/s SAS Expander technology with Enclosure Management  Supports the Windows Storage Server 2008 product family, including</p>	.us	Three-year parts and labor warranty	N	Storage Equipment

SIN	Mfg	Part Number	Product Description	COO	Warranty	Energy Star Compliant	Exclusion Type
			<p>Basic 32-bit Basic &amp; Basic 64-bit Workgroup, Standard, and Enterprise editions.</p> <p>Advanced Storage Management Features include:</p> <p>Single Instance Storage (SIS) v2 – SIS reduces the amount of storage used by data by replacing multiple identical copies with logical links to a single source copy</p> <p>File Server Optimization – Windows Storage Server 2008 is tuned to provide better performance in a file server role, realizing as much as an 8% performance gain in file system operations</p> <p>Remote Administration in Heterogeneous Environments – Remote administration of Windows Storage Server 2008 appliances can be done from Internet Explorer using an ActiveX control, and from non-Microsoft browsers using a Java control</p> <p>Improved Failover Clustering - Failover clustering in Windows Storage Server 2008 builds redundancy into your network and eliminates single points of failure for your data</p> <p>Print Services – Windows Storage Server 2008 offers performance enhancements for the Print Services role</p> <p>Distributed File System (DFS) Namespace and Replication – Windows Storage Server 2008 can provide DFS support for file sharing for WANs and satellite offices</p> <p>Remote administration through HTTP -- Just point a web browser to the server and you will have an ActiveX or Java-based RDP client without installing any software</p>				
132-8	ACMA	J4501	<p>Helios J4501 JBOD Storage</p> <p>Scales to a total of 96 spindles (or four enclosures) for a total capacity of 192TB.</p> <p>Supports high-performance SAS/SATA 3.0Gb/s disk drives.</p> <p>Supports hardware RAID 0, 1, 5, 6, 10, 50, 60.</p> <p>Scale up cost effectively with 24 hot swap hard disk drive JBOD modules.</p> <p>Low latency module interconnects for seamless future storage growth.</p> <p>Comprehensive storage management suites to fit any computing architecture.</p> <p>Meets the high-performance, high capacity, high-density, high reliability, and continuous availability demanded by today's business applications.</p> <p>Supports two 32nm Intel® Xeon® processor Westmere-EP 5600 series, with up to six cores &amp; 12 threads, and 12MB L2 cache per processor</p> <p>Intel 5520 chipset</p> <p>Intel® QuickPath architecture with 6.40 GT/s / 5.86 GT/s / 4.80 GT/s (Gigatransfers per second)</p> <p>Supports up to 96GB DDR3 1333/1066/800 MHz Reg. ECC memory</p> <p>On-board video controller &amp; dual on-board Gigabit Ethernet Connections</p> <p>A wide selection of 8, 12, 16, 24 port SATA or SAS RAID controller cards</p> <p>RAID 0, 1, 5, 6, 10, 50, 60, JBOD support, up to two external SAS connections on each controller card</p> <p>Maximum 96 SAS or SATA 3Gb/shard disks by Daisy Chaining 4 x Helios J4501 Systems</p> <p>Up to 12 hot swap drives in 2U, 16 hot swap drives in 3U, and 24 hot swap drives in 4U chassis</p> <p>SAS Expander backplane with</p> <p>Scalability through cascading, SAS/SATA 3Gb/s support, Inband SES- 2 Enclosure Management</p> <p>Single or dual input/output SFF 8087 connectors, with dual wide port capacity supporting up to 1.5GB/s through-put</p> <p>Hot swap high efficiency redundant power supply options and redundant cooling fans for each node</p> <p>GUI based SES Management Tool for ease of monitoring the status and health of the system</p> <p>Online Firmware upgrade ensures system's high availability</p> <p>LED indicators for JBOD Control Modules, Power &amp; Cooling Modules.</p> <p>Hard disks Status</p> <p>Offers multiple storage management software options, including Microsoft Storage Server 2008, to match your workflow, and can be completely auto-configured in minutes, and monitored or reconfigured through a remote connection.</p> <p>A comprehensive menu screen facilitates the setup process and lets users reconfigure the system as storage needs change.</p> <p>A Web Graphic User interface gives users access to advanced features such as multiple array settings, iSCSI parameters (connection mode, ID, LUN mapping, etc.) SNMP features and security options.</p> <p>System dimension: 7" x 17.2" x 26" (H x W x D)</p>	.us	Three-year parts and labor warranty	N	Storage Equipment