GPU Servers

Supercomputing Solutions

Tesla® Kepler Ready!

- **MAX. BANDWIDTH:** PCI-E 3.0 x16 for best I/O performance
- **MANAGEABILITY:** Server management & GPU status monitoring through IPMI 2.0
- **RELIABILITY:** Redundant power supplies & intelligent cooling control
- **EFFICIENCY:** Breakthrough system architecture to optimize TCO, with Platinum Level power supplies, advanced cooling, and high-end motherboard components

www.supermicro.com
High-Performance, Enterprise-Class Supercomputing
GPU-Accelerated for Finance, Oil & Gas, Science, and Engineering

Supermicro extends its technology lead in the GPU computing space with this innovative GPU server architecture. Many options are available to select from including systems with or without the latest enterprise grade NVIDIA® GPUs integrated; 1U, 2U, 3U, or 4U form factor; and UP or DP CPUs. These servers include up to 768GB of ECC DDR3-1600MHz memory, up to 4 non-blocking PCI-E 3.0 x16 expansion slots, hot-swap 2.5” or 3.5” SATA 3.0 (6Gbps) HDDs, high-efficiency redundant Platinum Level power supplies, dual Gigabit Ethernet or 10GbE LAN, and onboard BMC supporting IPMI 2.0 with media / KVM over dedicated LAN for smart server management. With Supermicro’s signature quality and support, customers will benefit from more processing capacity in less space with better efficiency and cost profiles. Based on the new generation Intel® Xeon® Processor E5-2600 series, these powerful GPU Computing Servers are targeted at HPC environments, and mission-critical applications, medical imaging, oil and gas simulation, quantum chemistry, financial simulation, astrophysics.

Global SKU part numbers are highlighted in green text.
## GPU Supercomputing Server Solutions

### SuperServer®

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SuperServer®</th>
<th>SuperServer®</th>
<th>SuperServer®</th>
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<tbody>
<tr>
<td></td>
<td>SYS-1027GR-72R2+</td>
<td>SYS-1027GR-TR2+</td>
<td>SYS-1027GR-TRF+</td>
</tr>
<tr>
<td><strong>Processor Support</strong></td>
<td>Intel® Xeon® processor E5-2600 series with QPI up to dual 8.0GT/s</td>
<td>Intel® Xeon® processor E5-2600 series with QPI up to dual 8.0GT/s</td>
<td>Intel® Xeon® processor E5-2600 series with QPI up to dual 8.0GT/s</td>
</tr>
<tr>
<td><strong>GPU Support</strong></td>
<td>Up to 3 GPU cards in 1U</td>
<td>Up to 3 GPU cards in 1U</td>
<td>Up to 2 GPU cards in 1U</td>
</tr>
</tbody>
</table>
| **Key Applications** | • 2D/3D and CAD Applications  
• 3D Rendering  
• Astrophysics  
• Chemistry  
• Cloud and Virtualization needs  
• Cloud Computing  
• Financial Analysis  
• High-performance computing  
• Oil & Gas | • 2D/3D and CAD Applications  
• 3D Rendering  
• Astrophysics  
• Chemistry  
• Cloud and Virtualization needs  
• Cloud Computing  
• Financial Analysis  
• High-performance computing  
• Oil & Gas | • 2D/3D and CAD Applications  
• 3D Rendering  
• Astrophysics  
• Chemistry  
• Cloud and Virtualization needs  
• Cloud Computing  
• Financial Analysis  
• High-performance computing  
• Oil & Gas |
| **Outstanding Features** | • 130W CPU support  
• 16 DIMM sockets  
• 512GB DDR3 SDRAM  
• 4x 2.5" SAS/SATA drives  
• Up to 3 GPU cards in 1U  
• GPU health monitoring with fan speed control | • 130W CPU support  
• 16 DIMM sockets  
• 512GB DDR3 SDRAM  
• 4x 2.5" SATA drives  
• Up to 3 GPU cards in 1U  
• GPU health monitoring with fan speed control | • 130W CPU support  
• 16 DIMM sockets  
• 512GB DDR3 SDRAM  
• 4x 2.5" SATA drives  
• Up to 2 GPU cards in 1U  
• GPU health monitoring with fan speed control |
| **Serverboard** | -72R2+: SUPER® X9DRG-HF+II  
-72RT2+: SUPER® X9DRG-HF+II | -TR2+: SUPER® X9DRG-HF+II  
-TRT2+: SUPER® X9DRG-HF+II | -TRF+: SUPER® X9DRG-HF+  
-TRFT+: SUPER® X9DRG-HF+II |
| **Chipset** | Intel® C602 chipset | Intel® C602 chipset | Intel® C602 chipset |
| **System Memory (Max.)** | Up to 512GB Registered ECC, DDR3-1600MHz 128GB | Up to 512GB Registered ECC, DDR3-1600MHz 128GB | Up to 512GB Registered ECC, DDR3-1600MHz 128GB |
| **Expansion Slots** | 3 PCI-E x16 slots (3 GPUs optimized);  
1 PCI-E x8 (in x16) low profile slot | 3 PCI-E x16 slots (3 GPUs optimized);  
1 PCI-E x8 (in x16) low profile slot | 4 PCI-E 3.0 x16 (2 GPUs optimized);  
1 PCI-E 3.0 x8 (in x16) low profile slot |
| **Onboard Storage Controller** | LS1* 2208 controller; HW RAID 0,1,5,6,10,50,60 | Intel® C602 controller for 2 SATA3 (6Gbps) ports; 2 SATA2 (3Gbps) ports; RAID 0,1,5,10 | Intel® C602 controller for 2 SATA3 (6Gbps) ports; 2 SATA2 (3Gbps) ports; RAID 0,1,5,10 |
| **Connectivity** | -72R2+: Dual LAN ports with Intel® i350 Gigabit Ethernet controller  
-72RT2+: Dual 10GBase-T ports with Intel® X540 controller | -TR2+: Dual LAN ports with Intel® i350 Gigabit Ethernet controller  
-TRT2+: Dual 10GBase-T ports with Intel® X540 controller | -TRF+: Dual LAN ports with Intel® i350 Gigabit Ethernet controller  
-TRFT+: Dual 10GBase-T ports with Intel® X540 controller |
| **VGA/Audio** | BMC integrated Matrox G200 | BMC integrated Matrox G200 | BMC integrated Matrox G200 |
| **Management** | Intel® Node Manager; IPMI2.0; NMI; SuperDoctor III; Watch Dog | Intel® Node Manager; IPMI2.0; NMI; SuperDoctor III; Watch Dog | Intel® Node Manager; IPMI2.0; NMI; SuperDoctor III; Watch Dog |
| **Drive Bays** | 4x 2.5" hot-swap SAS/SATA drive bay | 4x 2.5" hot-swap SAS/SATA drive bay | 4x 2.5" hot-swap SATA drive bay |
| **Power Supply** | Redundant 1600W Platinum Level high-efficiency power supplies with P/C & PMBus | Redundant 1600W Platinum Level high-efficiency power supplies with P/C & PMBus | Redundant 1800W Platinum Level high-efficiency power supplies with P/C & PMBus |
| **Cooling System** | 10x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control | 10x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control | 9 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control |
| **Form Factor** | 1U Rackmount  
17.2" (437mm) x 1.7" (43mm) x 30.6" (777 mm) | 1U Rackmount  
17.2" (437mm) x 1.7" (43mm) x 30.6" (777 mm) | 1U Rackmount  
17.2" (437mm) x 1.7" (43mm) x 30.6" (777 mm) |
<table>
<thead>
<tr>
<th>MODEL</th>
<th>SuperServer® SY5-1027GR-TRF/TQF</th>
<th>SuperServer® SY5-107GR-TF</th>
<th>SuperServer® SY5-2027GR-TRFH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor Support</strong></td>
<td>Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s</td>
<td>Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s</td>
<td>Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s</td>
</tr>
<tr>
<td><strong>GPU Support</strong></td>
<td>Up to 2 GPU cards in 1U</td>
<td>Up to 6 GPU cards in 2U</td>
<td>Up to 6 GPU cards in 2U</td>
</tr>
<tr>
<td><strong>Onboard Storage Controller</strong></td>
<td>-TQF/TFT/TF: 4 PCI-E 3.0 x16 support 4 double width GPU cards</td>
<td>-TQF/TFT: 2 SATA3 (6Gbps) ports; RAID 0,1,5,10</td>
<td>-TQF/TFT: 2 SATA3 (6Gbps) ports; RAID 0,1,5,10</td>
</tr>
<tr>
<td><strong>Key Applications</strong></td>
<td>Mission-critical applications</td>
<td>Mission-critical applications</td>
<td>Mission-critical application</td>
</tr>
<tr>
<td><strong>Outstanding Features</strong></td>
<td>• Up to 4 GPU cards in 1U</td>
<td>• Up to 2 GPU cards in 1U</td>
<td>• Up to 6 GPU cards in 2U</td>
</tr>
<tr>
<td><strong>Serverboard</strong></td>
<td>-TTF/TQF/TFT: SUPER® X9SRG-HF</td>
<td>SUPER® X9SRG-F</td>
<td>SUPER® X9SRG-HF</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel® C602 chipset</td>
<td>Intel® C602 chipset</td>
<td>Intel® C602 chipset</td>
</tr>
<tr>
<td><strong>System Memory (Max.)</strong></td>
<td>Up to 256GB of ECC DDR3 1600 SDRAM in 8 DIMM slots</td>
<td>Up to 256GB of ECC Reg. DDR3 1600 SDRAM in 8 DIMM slots</td>
<td>Up to 256GB ECC Reg. DDR3 1600 SDRAM in 8 DIMM slots</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td>-TQF/TFT/TQFT: 3 PCI-E 3.0 x16 support 3 double width GPU cards</td>
<td>2 PCI-E 3.0 x16 support 2 double width GPU cards</td>
<td>6 PCI-E 3.0 x16 support 2 double width GPU cards</td>
</tr>
<tr>
<td><strong>Onboard Storage Controller</strong></td>
<td>Intel® C602 controller for 2 SATA3 (6Gbps) ports; 2 SATA2 (3Gbps ports; RAID 0,1,5,10</td>
<td>1017GR-TF: Intel® C602 controller for 2 SATA3 (6Gbps) ports; 4 SATA2 (3Gbps ports; RAID 0,1,5,10</td>
<td>Intel® C602 controller for 2 SATA3 (6Gbps) ports; RAID 0,1,5,10</td>
</tr>
<tr>
<td><strong>Connectivity</strong></td>
<td>-TQF/TFT/TFT: Dual 10Gb Ethernet LAN with Intel® XS40 and 10GbBase-T connectors</td>
<td>Dual LAN with Intel® I350 Gigabit Ethernet controller</td>
<td>-TQF/TFT/TF: Dual LAN with Intel® I350 Gigabit Ethernet controller</td>
</tr>
<tr>
<td><strong>VGA/Audio Management</strong></td>
<td>Matrox® G200eW</td>
<td>Matrox® G200eW</td>
<td>Matrox® G200eW</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td>IPMI 2.0 + KVM with dedicated LAN, SuperDoctor™ III, Watch Dog Watch Dog</td>
<td>1017GR-TF: 6x 2.5” hot-swap SATA drive bays</td>
<td>10x 2.5” hot-swap SATA drive bays</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>4x 2.5” hot-swap SATA drive bays</td>
<td>512GB DDR3 16 DIMMs per Node</td>
<td>Reduced 1800W Platinum Level high-efficiency power supplies with FC &amp; PMBus</td>
</tr>
<tr>
<td><strong>Cooling System</strong></td>
<td>10x 4cm heavy duty counter-rotating fans with air shroud &amp; fan speed control</td>
<td>8x 4cm heavy duty counter-rotating fans with air shroud &amp; fan speed control</td>
<td>5x 8cm hot-swap cooling fans with air shroud &amp; optimal fan speed control</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>1U Rackmount</td>
<td>1U Rackmount</td>
<td>2U Rackmount</td>
</tr>
</tbody>
</table>

**Form Factor**

- 1U 6 GPU cards Tesla® Kepler Ready!
- Up to 4 GPU cards in 1U
- Up to 2 GPU cards in 1U
- Up to 6 GPU cards in 2U

**Applications**

- Financial, 3D rendering, chemistry applications
- Oil & gas applications
- Mission-critical applications
- Large database, e-business, on-line transaction processing
- Oil & gas, and medical application
- Large database, e-business, on-line transaction processing
- Medical applications
SuperServer®
SYS-2027GR-TRF

Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s
Up to 4 GPU cards in 2U

- Mission-critical application
- Enterprise server
- Large database, e-business, on-line transaction processing
- Oil & gas, and medical application
- Up to 4 GPU cards in 2U
- 10 x 2.5" SATA drives
- GPU health monitoring with fan speed control
- 1800W Redundant Platinum Level high efficiency power

-TRF: SUPER® X9DRG-HF
-TRFT: SUPER® X9DRG-HTF

Intel® C602 chipset
Up to 256GB ECC Reg. DDR3 1600 SDRAM in 8 DIMM slots
4 PCI-E 3.0 x16 support 4 double width GPU cards
1 PCI-E 3.0 x8 (in x16 low-profile)
1 PCI-E 2.0 x4 (in x16 FHFL)

Intel® C602 controller for 2 SATA3 (6Gbps) ports; 4 SATA2 (3Gbps) ports; RAID 0,1,5,10
4 SATA2 (3Gbps) ports; RAID 0,1,5,10
-TRF: Dual 10Gb Ethernet LAN with Intel® X540 and 10Gbase-T connectors
-TRF: Dual LAN with Intel® I350 Gigabit Ethernet controller
Matrox® G200eW
IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog
10x 2.5" hot-swap SATA drive bays

Redundant 1800W Platinum Level high efficiency power supplies with P/C & PMBus
5x 8cm hot-swap cooling fans with air shroud & optimal fan speed control
2U Rackmount
437 x 89 x 775mm (17.2" x 3.5" x 30.5")

SuperServer®
SYS-6037R-72RFT+

Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s
Up to 3 GPU cards (Passive Cooling) in 3U

- Cloud and other virtualization needs
- Hosting & Application delivery
- Database processing & Storage
- Simulation, Automation
- 24 DIMM support
- Supports 2 passive GPU cards
- 768GB DDR3 SDRAM
- 1280W Redundant Platinum Level high efficiency power supplies
- IPMI 2.0 + KVM with dedicated LAN

SUPER® X9DR87-TF+
SUPER® X9DR87-TFR

Intel® C602J chipset
Up to 768GB of ECC Reg. DDR3 1600 SDRAM in 24 DIMM slots
2 PCI-E 3.0 x16 support 2 double width GPU cards
4 PCI-E 3.0 x8

LSI® 2208 controller for 8 SAS2 ports; RAID 0,1,5,10,6,10,50,60;
Intel® C602J AHCI controller for 2 SATA3 (6Gbps) and 4 SATA2 (3Gbps) ports; RAID 0,1,5,10
Dual 10GBase-T LAN with Intel® 540 Gigabit Ethernet controller
Matrox® G200eW
IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog
8x 3.5" hot-swap SAS2 drive bays
Redundant 1280W Platinum Level Digital power supplies with IPMI & PMBus
4x 8cm hot-swap PWM cooling fans with air shroud, 2x 8cm exhaust fans, optimal fan speed control, and optimal GPU fan kit, GPU air shroud
3U Rackmount
437 x 132 x 648mm (17.2" x 5.2" x 25.5")

SuperServer®
SYS-7047GR-TRF
SYS-7047GR-TPRF (shown)

Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s
Up to 4 GPU cards in 4U

- Mission-critical application
- Enterprise server
- Large database, e-business, on-line transaction processing
- Oil & gas applications
- Medical applications
- Up to 4 GPU cards in 4U
- 512GB DDR3 SDRAM
- 1620W Redundant Platinum Level high efficiency power supplies
- Maximus Certified (-TRF)

SUPER® X9DR87-TF+
SUPER® X9DR87-TFR

Intel® C602 chipset
Up to 512GB of ECC Reg. DDR3 1600 SDRAM in 16 DIMM slots
4 PCI-E 3.0 x16 support 4 double width GPU cards
2 PCI-E 3.0 x8 (1 in x16)
1 PCI-E 2.0 x4 (in x8)

Intel® C602 controller for 2 SATA3 (6Gbps), 4 SATA2 (3Gbps) ports; RAID 0,1,5,10
4 SATA2 (3Gbps) ports; RAID 0,1,5,10
Dual 10Gb Ethernet LAN with Intel® X540 and 10Gbase-T connectors
Dual LAN with Intel® I350 Gigabit Ethernet controller
Matrox® G200eW
IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog
8x 3.5" hot-swap SATA drive bays
Redundant 1620W Platinum Level high efficiency power supplies with P/C & PMBus
4x 8cm hot-swap PWM cooling fans
-TRF: 4x 9cm hot-swap Passive Cooling fans & optimal fan speed control, 2x 8cm hot-swap exhaust fan
-TPRF: 4x 9cm hot-swap Passive Cooling fans & optimal fan speed control, 4x 8cm hot-swap exhaust fan
4U Rackmount Tower
462 x 178 x 673mm (18.2" x 7" x 26.5")

FatTwin™
SYS-F627G2-FT+/FTPT+
SYS-F627G2-F73+/-F73PT+

Quad set of Dual Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s
Up to 12 GPU cards

- Mission-critical application
- Enterprise server
- Large database, e-business, on-line transaction processing
- Oil & gas applications
- Medical applications
- FatTwin™ GPU, 4 DP Nodes,
- Front I/O, 16 DIMMs
- 12x PCI-E 3.0 x16 supports 12 GPU Cards
- Up to 6x 2.5" HDDs per Node
- 512GB DDR3 16 DIMMs per Node
- Redundant Platinum Level Power
- SAS 2.0 and SATA 3.0 (6Gbps)
- FT+: SUPER® X9DRFF-iG+; FT73+: SUPER® X9DRFF-7G+
- FTPT+: SUPER® X9DRFF-iGTG+; FT73PT+: SUPER® X9DRFF-7GTG+

Intel® C602 Chipset
Quad set of up to 512GB of ECC Reg. DDR3-1600MHz SDRAM in 16 DIMM slots
Quad set of 3 PCI-E 3.0 x16 support 3 double width GPU cards; and 2 PCI-E 3.0 x8 (low-profile)
-FT+: FTPT+: Quad set of C602 for 2 SATA3 and 4 SATA2; RAID 0,1,5,10
-FT73+: FT73PT+: Quad set of LSI 2308 for 6 SAS 2.0; RAID 0,1,10
-FT73PT+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller
-FTPT+/FT73PT+: Quad set of Dual 10GBe T with Intel® X540 10Gb e Controller
Matrox® G200eW
Quad set of IPMI 2.0+ KVM with dedicated LAN, SuperDoctor® III, Watch Dog
-FT+: FTPT+: Quad set of 6x2.5" hot-swap SATA drive bays
-FT73+: FT73PT+: Quad set of 6x2.5" hot-swap SAS drive bays
4x Redundant 1620W Platinum Level (94%+) power supplies with P/C & PMBus
8x 8cm heavy duty fans with air shroud & PWM fan speed control
4U Rackmount
448W x 177H x 889D mm (17.63"W x 6.96"H x 35")
<table>
<thead>
<tr>
<th>MODEL</th>
<th>FatTwin™</th>
<th>GPU SuperBlade®</th>
<th>GPU SuperBlade®</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SYS-F627G3-FT+/FTPT+</td>
<td>SBI-7127RG3</td>
<td>SBI-7127RG-E</td>
</tr>
<tr>
<td>Processor Support</td>
<td>Quad set of Dual Intel® Xeon® Processor E5-2600 Series with QPI up to 8GT/s</td>
<td>Dual Intel® Xeon® processor ES-2600 series, Dual Socket R (LGA 2011) with QPI up to 8GT/s</td>
<td>Dual Intel® Xeon® processor E5-2600 series, Dual Socket R (LGA 2011) with QPI up to 8GT/s</td>
</tr>
<tr>
<td>GPU Support</td>
<td>Supports 3 NVIDIA K20X-SXM GPUs; Up to 180 GPU cards per 42U Rack</td>
<td>• HPC</td>
<td>Up to 120 GPU cards per 42U Rack;</td>
</tr>
<tr>
<td>Key Applications</td>
<td>• Mission-critical application • Enterprise server • Large database, e-business, on-line transaction processing • Oil &amp; gas applications • Medical applications</td>
<td>• GPU Accelerated High-Performance, Enterprise-Class SuperComputing • GPU Direct RDMA for fastest GPU-to-GPU communications • 3 PCI-E 3.0 x16 • 8 DDR3 DIMM (Up to 1600MHz) • Intel® C6021 chipset • On-board Intel i350 Dual Port 1GbE NIC • InfiniBand FDR/QDR or 10GbE • On-board BMC for IPMI 2.0 support</td>
<td>• GPU Accelerated High-Performance, Enterprise-Class SuperComputing • GPU Direct RDMA for fastest GPU-to-GPU communications • 2 PCI-E 3.0 support NVIDIA Tesla K20X, K20M, K10, GRID K1, K2 • 8 DDR3 DIMM (Up to 1600MHz) • Intel® C6021 chipset • On-board Intel i350 Dual Port 1GbE NIC • InfiniBand FDR/QDR, 10GbE, or FCoE • On-board BMC for IPMI 2.0 support</td>
</tr>
<tr>
<td>Outstanding Features</td>
<td>• FatTwin™ GPU, 4 DP Nodes, Front I/O, 16 DIMMs • 12x PCI-E 3.0 x16 supports 12 GPU Cards • Up to 2 x 3.5” HDDs per Node • 512GB DDR3 16 DIMMs per Node • Redundant Platinum Level Power • SAS 2.0 and SATA 3.0 (6Gbps)</td>
<td>Up to 256GB DDR3 ECC 16 DIMMs in 8 DIMM slots</td>
<td>Up to 256GB DDR3 ECC RDIMM in 8 DIMM slots</td>
</tr>
<tr>
<td>Serverboard</td>
<td>Intel® C602 Chipset</td>
<td>Intel® C602J chipset</td>
<td>Intel® C602 chipset</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® C602 Chipset</td>
<td>Intel® C602J chipset</td>
<td>Intel® C602 chipset</td>
</tr>
<tr>
<td>System Memory (Max.)</td>
<td>Quad set of up to 512GB of ECC Reg. DDR3-1600MHz SDRAM in 16 DIMM slots</td>
<td>Up to 256GB DDR3 ECC RDIMM in 8 DIMM slots</td>
<td>Up to 256GB DDR3 ECC RDIMM in 8 DIMM slots</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>Quad set of 3 PCI-E 3.0 x16 support 3 double width GPU cards; and 2 PCI-E 3.0 x8 (low-profile)</td>
<td>PCl-E 3.0 x16 slots support up to 3x K20X-SXM</td>
<td>PCI-E 3.0 slots support two Tesla Kepler K10/K20M/K20X, GRID K1/K2</td>
</tr>
<tr>
<td>Onboard Storage Controller</td>
<td>-FT+/-FTPT+: Quad set of C602 for 2 SATA3; RAID 0,1 -F73+/F73PT+: Quad set of LSI 2308 for 2 SAS 2.0; RAID 0,1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connectivity</td>
<td>Intel® (i350 dual-port Gigabit Ethernet controller; FDR/QDR (40Gb) InfiniBand or 10GbE mezzanine HCA (optional)</td>
<td>Intel® (i350 dual-port Gigabit Ethernet controller; FDR/QDR (40Gb) InfiniBand or 10GbE mezzanine HCA (optional)</td>
<td>Intel® (i350 dual-port Gigabit Ethernet controller; FDR/QDR (40Gb) InfiniBand or 10GbE mezzanine HCA (optional)</td>
</tr>
<tr>
<td>VGA/Audio</td>
<td>Matrox G200eW</td>
<td>Integrated Matrox G200eW Graphics</td>
<td>Integrated Matrox G200eW Graphics</td>
</tr>
<tr>
<td>Management</td>
<td>Quad set of IPMI 2.0+ KVM with dedicated LAN, SuperDoctor® III, Watch Dog</td>
<td>Integrated IPMI 2.0, KVM over IP, Remote virtual mode</td>
<td>Integrated IPMI 2.0, KVM over IP, Virtual media over LAN</td>
</tr>
<tr>
<td>Drive Bays</td>
<td>-FT+/-FTPT+: Quad set of 2x 3.5” hot-swap SATA drive bays -F73+/F73PT+: Quad set of 2x 3.5” hot-swap SAS drive bays</td>
<td>1x internal SATA DOM up to 128GB</td>
<td>1x SSD or SATA DOM</td>
</tr>
<tr>
<td>Power Supply</td>
<td>4x Redundant 1620W Platinum Level (94%+) power supplies with 1C &amp; PMBus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling System</td>
<td>8x 8cm heavy duty fans with air shroud &amp; PWM fan speed control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Form Factor</td>
<td>4U Rackmount 448W x 177H x 889D mm (17.63”W x 6.96”H x 35”D)</td>
<td>11.32” H x 1.67” W x 20.5” D (288 x 42.4 x 520 mm)</td>
<td>11.32” H x 1.67” W x 20.5” D (288 x 42.4 x 520 mm)</td>
</tr>
</tbody>
</table>
Onboard Storage

System Memory

Expansion Slots Quad set of 3 PCI-E 3.0 x16 support 3 double width GPU

Cooling System 8x 8cm heavy duty fans with air shroud & PWM fan speed

Power Supply 4x Redundant 1620W Platinum Level (94%+) power

Management Quad set of IPMI 2.0+ KVM with dedicated LAN,

GPU Support Up to 12 GPU cards Supports 3 NVIDIA K20X-SXM GPUs;

Outstanding Applications

Serverboard

MODEL

VGA/Audio Matrox G200eW Integrated Matrox G200eW Graphics Integrated Matrox G200eW Graphics

Drive Bays -FT+/-FTPT+: Quad set of 2x 3.5” hot-swap SATA drive bays

Controller

Processor

Support

Chipset Intel® C602 Chipset Intel® C602J chipset Intel® C602 chipset (Max.)

Key

-F73+: SUPER
-F73PT+: SUPER
-FT+: SUPER

±F73+/F73PT+: Quad set of 2x 3.5” hot-swap SAS drive bays 1x internal SATA DOM up to 128GB 1x SSD or SATA DOM

SuperDoctor® III, Watch Dog

-X540 10GbE controller

-FTPT+-F73PT+: Quad set of Dual 10GBase-T with Intel® Gigabit Ethernet controller

-FT+/-F73+: Quad set of Dual LAN ports with Intel® i350

-F73+/F73PT+: Quad set of LSI 2308 for 2 SAS 2.0; RAID 0,1

-FT+/-FTPT+: Quad set of C602 for 2 SATA3; RAID 0,1

SYS-F627G3-F73+/F73PT+
SYS-F627G3-FT+/FTPT+

FatTwin™

12 GPU Cards in 4 DP Nodes

12x PCI-E 3.0 x16 supports 12 Double-Width GPU cards,
Up to 2x 3.5” or 6x 2.5” HDDs per node, 512GB DDR3-1600MHz in 16 DIMMs per node,
Redundant Platinum Level Power Supplies,
SAS 2.0 and SATA 3.0 (6Gbps)

GPU SuperBlade®

SYS-F627G2-FT+
SYS-F627G2-F73+
SYS-F627G2-FTPT+
SYS-F627G2-F73PT+

GPU FatTwin™

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SYS-F627G2-FTPT+
SYS-F627G2-F73PT+

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SuperBlade® family
DatacenterBlade®
TwinBlade®

Highest Capacity up to 72x 3.5”
External Hot-Swap HDDs in 4U

Data center Optimized
Data Center PUE < 1.1
47°C Ambient Server Solutions

Twin Family
2UTwin®
4 DP Nodes in 2U
12x 2.5”/6x 3.5” HDDs in 1 Rack Unit

New!
FatTwin™
8/4 Nodes in 4U
Front or Rear I/O

GPU Supercomputing
Multi TeraFLOPS Servers/Workstations/Blades

WIO/UIO Family
3 Add-on Cards in 1U
Onboard SAS 2.0 & Quad LAN,
10GbE, IB options

New!
72x Ext. Hot-Swap
HDDs in 4U

Double-Sided Storage®
Highest Capacity up to 72x 3.5”
External Hot-Swap HDDs in 4U

Free-Air Cooling
47°C Ambient Operation
PUE ≤ 1.1

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