



**G34 2U Twin<sup>2</sup>  
SAS 3.5" HDD**



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SAS 2.5" HDD**



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SAS 3.5" HDD**



MODEL	A+ Server 2022TG-H6RF A+ Server 2022TG-H6IBQRF	A+ Server 2122TG-H6IBQRF/ A+ Server 2122TG-H6RF	A+ Server 2022TG-HLIBQRF A+ Server 2022TG-HLTRF
Processor Support	16/12/8/4-Core AMD Opteron™ 6000 Series Processors	16/12/8/4-Core AMD Opteron™ 6000 Series Processors	16/12/8/4-Core AMD Opteron™ 6000 Series Processors
Key Applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications
Outstanding Features	<ul style="list-style-type: none"> <li>LSI 2108 SAS2 RAID controller</li> <li>Best performance per watt</li> <li>Four hot-swappable nodes in 2U</li> <li>Up to 128 Cores in 2U</li> <li>Quad set of 3 hot-swap 3.5" SATA/SAS drive bays</li> <li>RAID: 0, 1, 5</li> <li>More than double computing density and efficiency</li> <li>Independent power control</li> <li>Independent cooling control</li> <li>1620W Platinum Level (94%+) high-efficiency redundant power</li> <li>Reduce power cables and power strips</li> <li>Save maintenance/ management costs</li> </ul>	<ul style="list-style-type: none"> <li>LSI® 2108 SAS2 RAID controller</li> <li>Best performance per watt</li> <li>Four hot-swappable nodes in 2U</li> <li>Up to 128 Cores in 2U</li> <li>Quad set of 6 hot-swap 2.5" SATA/SAS drive bays</li> <li>RAID: 0, 1, 5, 6, 10, 50</li> <li>More than double computing density and efficiency</li> <li>Independent power control</li> <li>Independent cooling control</li> <li>1620W Platinum Level (94%+) high-efficiency redundant power</li> <li>Reduce power cables and power strips</li> <li>Save maintenance/ management costs</li> </ul>	<ul style="list-style-type: none"> <li>Best performance per watt</li> <li>Four hot-swappable nodes in 2U</li> <li>Up to 128 Cores in 2U</li> <li>Quad set of 3 hot-swap 3.5" SATA drive bays</li> <li>RAID: 0, 1</li> <li>More than double computing density and efficiency</li> <li>Independent power control</li> <li>Independent cooling control</li> <li>1620W Platinum Level (94%+) high-efficiency redundant power</li> <li>Reduce power cables and power strips</li> <li>Save maintenance/ management costs</li> </ul>
Serverboard/Chipset	H8DGT-HLIBQF/HLF / HyperTransport™ technology AMD SR5690+SP5100	H8DGT-HLIBQF/HLF / HyperTransport™ technology AMD SR5690+SP5100	H8DGT-HLIBQF/HLF / HyperTransport™ technology AMD SR5690+SP5100
System Memory (Max.)	Quad set of 256GB ECC Registered DDR3 1866/1600/1333/1066 SDRAM in 8 DIMMs	Quad set of 256GB ECC Registered DDR3 1866/1600/1333/1066 SDRAM in 8 DIMMs	Quad set of 256GB ECC Registered DDR3 1866/1600/1333/1066 SDRAM in 8 DIMMs
Expansion Slots	Quad set of PCI-E 2.0 x16 (low profile)	Quad set of PCI-E 2.0 x16 (low profile)	Quad set of PCI-E 2.0 x16 (low profile)
Onboard SAS/SCSI/SATA/IDE/RAID	Quad set of LSI 2108 for 3 SAS	Quad set of LSI 2108 for 6 SAS	Quad set of AMD SP5100 for 3 SATA 2.0
Connectivity/VGA/Audio	Quad set of dual LAN w/ Intel® 82576 GbE controller Quad set of Mellanox Connect-X2 40Gbps InfiniBand (H6IBQRF only) Quad set of Matrox G200eW graphics controller	Quad set of dual LAN w/ Intel® 82576 GbE controller Quad set of Mellanox Connect-X2 40Gbps InfiniBand (H6IBQRF only) Quad set of Matrox G200eW graphics controller	Quad set of dual LAN w/ Intel® 82576 GbE controller Quad set of Mellanox Connect-X2 40Gbps InfiniBand (HLIBQRF only) Quad set of Matrox G200eW graphics controller
Management	IPMI 2.0, SuperDoctor III, Watch Dog	IPMI 2.0, SuperDoctor III, Watch Dog	IPMI 2.0, SuperDoctor III, Watch Dog
Drive Bays	Quad set of 3 hot-swap 3.5" SAS/SATA drive bays	Quad set of 6 hot-swap 2.5" SAS/SATA drive bays	Quad set of 3 hot-swap 3.5" SATA drive bays
Peripheral Bays	N/A	N/A	N/A
Power Supply	1620W Platinum Level (94%+) high-efficiency redundant power supplies with PMBus	1620W Platinum Level (94%+) high-efficiency redundant power supplies with PMBus	1620W Platinum Level (94%+) high-efficiency redundant power supplies with PMBus
Cooling System	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Form Factor	2U Rackmount 438 x 89 x 724mm (17.25" x 3.5" x 28.5")	2U Rackmount 438 x 89 x 724mm (17.25" x 3.5" x 28.5")	2U Rackmount 438 x 89 x 724mm (17.25" x 3.5" x 28.5")

**G34 2U Twin<sup>2</sup><sup>®</sup>  
SATA 2.5" HDD**

**G34 2U Twin<sup>2</sup><sup>®</sup>  
SATA 3.5" HDD**

**C32  
2U Twin<sup>2</sup><sup>®</sup>  
SAS 2.5" HDD**



MODEL	A+ Server 2122TG-HTRF A+ Server 2122TG-HIBQRF	A+ Server 2022TG-HTRF A+ Server 2022TG-HIBQRF	A+ Server 2122TC-H6RF4
Processor Support	16/12/8/4-Core AMD Opteron™ 6000 Series Processors	16/12/8/4-Core AMD Opteron™ 6000 Series Processors	8/6/4-Core AMD Opteron™ 4000 Series Processors
Key Applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications
Outstanding Features	<ul style="list-style-type: none"> <li>• Best performance per watt</li> <li>• Four hot-swappable nodes in 2U</li> <li>• Up to 128 Cores in 2U</li> <li>• Quad set of 6 hot-swap 2.5" SATA drive bays</li> <li>• RAID: 0, 1, 10</li> <li>• More than double computing density and efficiency</li> <li>• Independent power control</li> <li>• Independent cooling control</li> <li>• 1400W <b>Gold Level</b> high-efficiency redundant power</li> <li>• Save maintenance/ management costs</li> </ul>	<ul style="list-style-type: none"> <li>• Best performance per watt</li> <li>• Four hot-swappable nodes in 2U</li> <li>• Up to 128 Cores in 2U</li> <li>• Quad set of 3 hot-swap 3.5" SATA drive bays</li> <li>• RAID: 0, 1</li> <li>• More than double computing density and efficiency</li> <li>• Independent power control</li> <li>• Independent cooling control</li> <li>• 1400W <b>Gold Level</b> high-efficiency redundant power</li> <li>• Reduce power cables and power strips</li> <li>• Save maintenance/ management costs</li> </ul>	<ul style="list-style-type: none"> <li>• LSI® 2108 SAS2 RAID controller</li> <li>• Best performance per watt</li> <li>• 4 hot-swappable nodes in 2U</li> <li>• Quad set of 6 hot-swap 2.5" SATA/SAS drive bays</li> <li>• RAID: 0, 1, 5, 6, 10, 50</li> <li>• More than double computing density and efficiency</li> <li>• Independent power control</li> <li>• Independent cooling control</li> <li>• 1620W <b>Platinum Level (94%+)</b> high-efficiency redundant power</li> <li>• Reduce power cables and power strips</li> <li>• Save maintenance/ management costs</li> </ul>
Serverboard/Chipset	H8DGT-HF/HIBQF / HyperTransport™ technology AMD SR5670+SP5100	H8DGT-HF/HIBQF / HyperTransport™ technology AMD SR5670+SP5100	H8DCT-HLN4F / HyperTransport™ technology AMD SR5670+SP5100
System Memory (Max.)	Quad set of 512GB ECC Registered DDR3 1600/1333/1066 SDRAM in 16 DIMMs	Quad set of 512GB ECC Registered DDR3 1600/1333/1066 SDRAM in 16 DIMMs	Quad set of 192GB ECC Registered or 64GB unbuffered ECC/non-ECC DDR3 1600/1333/1066 SDRAM in 12 DIMMs
Expansion Slots	Quad set of PCI-E 2.0 x16 (low profile) (For add-on card up to 5.9" in length)	Quad set of PCI-E 2.0 x16 (low profile) (For add-on card up to 5.9" in length)	Quad set of PCI-E 2.0 x16 (low profile)
Onboard SAS/SCSI/ SATA/ IDE/RAID	Quad set of AMD SP5100 for 6 SATA 2.0	Quad set of AMD SP5100 for 3 SATA 2.0	Quad set of LSI 2108 SAS 2 Controller
Connectivity/VGA/ Audio	Quad set of dual LAN w/ Intel® 82576 GbE controller Quad set of Mellanox Connect-X2 40Gbps InfiniBand (HIBQRF only) Quad set of Matrox G200eW graphics controller	Quad set of dual LAN w/ Intel® 82576 GbE controller Quad set of Mellanox Connect-X2 40Gbps InfiniBand (HIBQRF only) Quad set of Matrox G200eW graphics controller	Quad set of four LAN w/ Intel® i350 GbE controller Quad set of Matrox G200eW graphics controller
Management	IPMI 2.0, SuperDoctor III, Watch Dog	IPMI 2.0, SuperDoctor III, Watch Dog	IPMI 2.0, SuperDoctor III, Watch Dog
Drive Bays	Quad set of 6 hot-swap 2.5" SATA drive bays	Quad set of 3 hot-swap 3.5" SATA drive bays	Quad set of 6 hot-swap 2.5" SAS/SATA drive bays
Peripheral Bays	N/A	N/A	N/A
Power Supply	1400W <b>Gold Level</b> high-efficiency redundant power supplies with PMBus	1400W <b>Gold Level</b> high-efficiency redundant power supplies with PMBus	1620W <b>Platinum Level (94%+)</b> high-efficiency redundant power supplies with PMBus
Cooling System	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Form Factor	2U Rackmount 438x89x724mm(17.25"x3.5"x28.5")	2U Rackmount 438 x 89 x 724mm (17.25" x 3.5" x 28.5")	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")

\* Please check 'Tested Memory List' on Supermicro website for compatibility



**C32  
2U Twin<sup>2</sup><sup>®</sup>**



**C32  
2U Twin<sup>2</sup><sup>®</sup>**



**C32  
2U Twin  
12 HDD per Node**



MODEL	A+ Server 2022TC-HTRF4	A+ Server 2022TC-BTRF/ A+ Server 2022TC-BIBQRF	A+ Server 2122TC-DL6RF4
Processor Support	8/6/4-Core AMD Opteron™ 4000 Series Processors	8/6/4-Core AMD Opteron™ 4000 Series Processors	8/6/4-Core AMD Opteron™ 4000 Series Processors
Key Applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications	HPC cluster computer nodes, storage nodes, datacenter, data farm, front-end server and other computing intensive applications
Outstanding Features	<ul style="list-style-type: none"> <li>• Best performance per watt</li> <li>• 4 hot-swappable nodes in 2U</li> <li>• Quad set of 3 hot-swap 3.5" SAT drive bays</li> <li>• RAID: 0, 1</li> <li>• More than double computing density and efficiency</li> <li>• Independent power control</li> <li>• Independent cooling control</li> <li>• 1620W <b>Platinum Level (94%+)</b> high-efficiency redundant power</li> <li>• Reduce power cables and power strips</li> <li>• Save maintenance/ management costs</li> </ul>	<ul style="list-style-type: none"> <li>• Best performance per watt</li> <li>• 4 hot-swappable nodes in 2U</li> <li>• Quad set of 3 hot-swap 3.5" SATA drive bays</li> <li>• RAID: 0, 1</li> <li>• More than double computing density and efficiency</li> <li>• Independent power control</li> <li>• Independent cooling control</li> <li>• 1400W <b>Gold Level</b> high-efficiency redundant power</li> <li>• Reduce power cables and power strips</li> <li>• Save maintenance/ management costs</li> </ul>	<ul style="list-style-type: none"> <li>• LSI® 2008 SAS2 RAID controller</li> <li>• Best performance per watt</li> <li>• 2 hot-swappable nodes in 2U</li> <li>• 12 hot-swap 2.5" SAS/ SATA drive bays per node</li> <li>• RAID: IT Mode only</li> <li>• More than double computing density and efficiency</li> <li>• Independent power control</li> <li>• Independent cooling control</li> <li>• 1280W <b>Platinum Level (94%+)</b> high-efficiency redundant power</li> <li>• Reduce power cables and power strips</li> <li>• Save maintenance/ management costs</li> </ul>
Serverboard/Chipset	H8DCT-HLN4F / HyperTransport™ technology AMD SR5670+SP5100	H8DCT-F/-IBQF / HyperTransport™ technology AMD SR5670+SP5100	H8DCT-HLN4F HyperTransport™ technology AMD SR5670+SP5100
System Memory (Max.)	Quad set of 192GB ECC Registered or 64GB unbuffered ECC/non-ECC DDR3 1600/1333/1066 SDRAM in 12 DIMMs	Quad set of 192GB ECC Registered or 64GB unbuffered ECC/non-ECC DDR3 1600/1333/1066 SDRAM in 12 DIMMs	Dual set of 192GB ECC Registered DDR3 1600/1333/1066 SDRAM in 12 DIMMs
Expansion Slots	Quad set of PCI-E 2.0 x16 (low profile)	Quad set of PCI-E 2.0 x16 (low profile)	Dual set of PCI-E 2.0 x16 (low profile)
Onboard SAS/SCSI/ SATA/ IDE/RAID	Quad set of AMD SP5100 for 3 SATA 2.0	Quad set of AMD SP5100 for 3 SATA 2.0	Dual set of LSI 2008 for SAS2 with expander
Connectivity/VGA/ Audio	Quad set of four LAN w/ Intel® i350 GbE controller Quad set of Matrox G200eW graphics controller	Quad set of dual LAN w/ Intel® 82576 GbE controller Quad set of Mellanox Connect-X2 40Gbps InfiniBand (BIBQRF only) Quad set of Matrox G200eW graphics controller	Dual set of Quad LAN w/ Intel® I350 GbE controller Dual set of Matrox G200eW graphics controller
Management	IPMI 2.0, SuperDoctor III, Watch Dog	IPMI 2.0, SuperDoctor III, Watch Dog	IPMI 2.0, SuperDoctor III, Watch Dog
Drive Bays	Quad set of 3 hot-swap 3.5" SATA drive bays	Quad set of 3 hot-swap 3.5" SATA drive bays	Dual set of 12 hot-swap 2.5" SAS/SATA drive bays
Peripheral Bays	N/A	N/A	N/A
Power Supply	1620W <b>Platinum Level (94%+)</b> high-efficiency redundant power supplies with PMBus	1400W <b>Gold Level</b> high-efficiency redundant power supplies with PMBus	1280W <b>Platinum Level (94%+)</b> high-efficiency redundant power supplies with PMBus
Cooling System	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	Twin set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	Dual set of 2x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Form Factor	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 89 x 724mm (17.25" x 3.5" x 28.5")