

**G34 1U 32 DIMMs  
4-Way**

**G34 1U 16 DIMMs 1866 Mhz  
support 4-Way**

**G34 1U  
3.5" HDD GPU**



MODEL	A+ Server 1042G-TF	A+ Server 1042G-LTF	A+ Server 1022GG-TF
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	High performance computer cluster (HPCC) Virtualization server, online transaction processing	High performance computer cluster (HPCC) Virtualization server, online transaction processing	Specialized HPC cluster nodes, medical imaging, oil and gas simulation, quantum chemistry, financial simulation, astrophysics
Outstanding Features	<ul style="list-style-type: none"> <li>1U 4-way system (64-cores)</li> <li>3 hot-swap 3.5" SATA drive bays</li> <li>RAID 0, 1</li> <li>1 Low-profile PCI-E x16 slot</li> <li>1TB DDR3 1600/1333/1066/SDRAM</li> <li>2 Gigabit Ethernet ports</li> <li>IPMI 2.0 management with dedicated LAN</li> <li>1400W <b>Gold Level</b> high-efficiency power supply</li> </ul>	<ul style="list-style-type: none"> <li>1U 4-way system (64-cores)</li> <li>3 hot-swap 3.5" SATA drive bays</li> <li>RAID 0, 1</li> <li>1 PCI-E x16 slot</li> <li>512GB DDR3 1866/1600/1333/1066 SDRAM</li> <li>2 Gigabit Ethernet ports</li> <li>IPMI 2.0 management with dedicated LAN</li> <li>1400W <b>Gold Level</b> high-efficiency power supply</li> </ul>	<ul style="list-style-type: none"> <li>Supports up to 2 GPU cards</li> <li>512GB DDR3 1600/1333/1066 SDRAM</li> <li>3 hot-swap 3.5" SATA drive bays</li> <li>RAID: 0, 1</li> <li>2 Gigabit Ethernet ports</li> <li>IPMI 2.0 management</li> <li>1400W <b>Gold Level</b> high-efficiency power supply</li> </ul>
Serverboard/Chipset	H8QGi+-F / HyperTransport™ technology AMD SR5690+SP5100	H8QGL-iF+ / HyperTransport™ technology AMD SR5690+SP5100	H8DGG-QF / HyperTransport™ technology Dual AMD SR5690+SP5100
System Memory (Max.)	1TB ECC Registered DDR3 1600/1333/1066 SDRAM in 32 DIMMs	512GB ECC Registered DDR3 1866/1600/1333/1066 SDRAM in 16 DIMMs	512GB ECC Registered DDR3 1600/1333/1066 SDRAM in 16 DIMMs
Expansion Slots	1 PCI-E 2.0 x16 (low profile)	1 PCI-E 2.0 x16 or HTX slot (option)	2 PCI-E 2.0 x16 1 PCI-E 2.0 x8 (low profile) (For add-on card up to 5.9" length)
Onboard SAS/SCSI/ SATA/ IDE/RAID	AMD SP5100 for 3 SATA 2.0	AMD SP5100 for 3 SATA 2.0	AMD SP5100 for 3 SATA 2.0
Connectivity/VGA/ Audio	Dual LAN with Intel® 82576 Gigabit Ethernet controller Matrox G200eW graphics controller	Dual LAN with Intel® 82576 Gigabit Ethernet controller Matrox G200eW graphics controller	Dual LAN with Intel® 82576 Gigabit Ethernet controller 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	3 hot-swap 3.5" SATA drive bays	3 hot-swap 3.5" SATA drive bays	3 hot-swap 3.5" SATA drive bays
Peripheral Bays	1 slim DVD-ROM drive (optional)	1 slim DVD-ROM drive (optional)	1 slim DVD-ROM drive (optional)
Power Supply	1400W <b>Gold Level</b> high efficiency power supply	1400W <b>Gold Level</b> high efficiency power supply	1400W <b>Gold Level</b> high-efficiency power supply
Cooling System	6x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	6x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	8x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 705mm (17.2" x 1.7" x 27.75")	1U Rackmount 437 x 43 x 705mm (17.2" x 1.7" x 27.75")	1U Rackmount 437 x 43 x 716mm (17.2" x 1.7" x 28.2")

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

**G34 IU  
2.5" HDD GPU**

**G34 IU 16 DIMMs  
UIO**

**G34 IU 24 DIMMs  
UIO**



MODEL	A+ Server 1122GG-TF	A+ Server 1022G-URF/ A+ Server 1022G-NTF	A+ Server 1122G-URF4+
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	Specialized HPC cluster nodes, medical imaging, oil and gas simulation, quantum chemistry, financial simulation, astrophysics	High-end enterprise server, SQL server, High performance computer cluster (HPCC)	High-end enterprise server, SQL server, High performance computer cluster (HPCC)
Outstanding Features	<ul style="list-style-type: none"> <li>• Supports up to 2 GPU cards</li> <li>• 512GB DDR3 1600/1333/1066 SDRAM</li> <li>• 6 hot-swap 2.5" SATA drive bays</li> <li>• RAID: 0, 1, 10</li> <li>• 2 Gigabit Ethernet ports</li> <li>• IPMI 2.0 management</li> <li>• 1400W <b>Gold Level</b> high-efficiency power supply</li> </ul>	<ul style="list-style-type: none"> <li>• 4 hot-swap 3.5" SATA drive bays(1022G-NTF)</li> <li>• 4 hot-swap 3.5" SATA/SAS drive bays (1022G-URF addition UIO SAS card required)</li> <li>• RAID: 0, 1, 10 (1022G-NTF)</li> <li>• Universal I/O slot (1022G-URF) and PCI-E slot</li> <li>• 512GB DDR3 1600/1333/1066 SDRAM</li> <li>• 2 Gigabit Ethernet ports</li> <li>• IPMI 2.0 management</li> <li>• 700W <b>Gold Level</b> high-efficiency redundant power supplies (1022G-URF only)</li> <li>• 560W high-efficiency power supply (1022G-NTF)</li> </ul>	<ul style="list-style-type: none"> <li>• 8 hot-swap 2.5" SATA/SAS drive bays (additional UIO SAS card required)</li> <li>• Resource optimized system solution</li> <li>• 4 Gigabit Ethernet ports</li> <li>• 768GB DDR3 1600/1300/1066 SDRAM in 24 DIMMs</li> <li>• Full-Height, Full-Length expansion cards</li> <li>• IPMI 2.0 management</li> <li>• 700W <b>Gold Level</b> high-efficiency redundant power supplies</li> </ul>
Serverboard/Chipset	H8DGG-QF / HyperTransport™ technology Dual AMD SR5690+SP5100	H8DGU-F / HyperTransport™ technology AMD SR5670+SP5100	H8DGU-LN4F+ / HyperTransport™ technology AMD SR5690+SP5100
System Memory (Max.)	512GB ECC Registered DDR3 1600/1333/1066 SDRAM in 16 DIMMs	512GB ECC Registered DDR3 1600/1333/1066 SDRAM in 16 DIMMs	768GB ECC Registered DDR3 1600/1333/1066 SDRAM in 24 DIMMs
Expansion Slots	2 PCI-E 2.0 x16 1 PCI-E 2.0 x8 (low profile) (For add-on card up to 5.9" length)	1 Universal I/O (UIO) slot and 1 PCI-E 2.0 x16 (1022G-URF only) 2 PCI-E 2.0 x8 (1022G-NTF only)	1 Universal I/O (UIO) slot 1 PCI-E 2.0 x16
Onboard SAS/SCSI/SATA/IDE/RAID	AMD SP5100 for 3 SATA 2.0	1 Universal I/O (UIO) slot and 1 PCI-E 2.0 x16 (1022G-URF only)* 2 PCI-E 2.0 x8 (1022G-NTF only)	UIO SAS 8 port controller (optional) AMD SP5100 for 6 SATA 2.0 *
Connectivity/VGA/Audio	Dual LAN with Intel® 82576 Gigabit Ethernet controller Matrox G200eW graphics controller	Dual LAN with Intel® 82576 Gigabit Ethernet controller Matrox G200eW graphics controller	Four LAN with dual Intel® 82576 Gigabit Ethernet controller 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	6 hot-swap 2.5" SATA drive bays	4 hot-swap 3.5" SAS or SATA drive bays	8 hot-swap 2.5" SAS/SATA drive bays
Peripheral Bays	N/A	1 slim DVD-ROM drive	1 slim DVD-ROM drive (optional)
Power Supply	1400W <b>Gold Level</b> high-efficiency power supply	700W <b>Gold Level</b> high-efficiency redundant power supplies (1022G-URF only) 560W <b>Gold Level</b> high-efficiency power supply (1022G-NTF only)	700W <b>Gold Level</b> high-efficiency redundant power supplies
Cooling System	8x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	4x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	5x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 716mm (17.2" x 1.7" x 28.2")	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	1U Rackmount 437 x 43 x 676mm (17.2" x 1.7" x 26.6")

\* Supermicro UIO card must be installed

**UP AM3+ with SAS  
On Board**

**UP AM3+**

**UP AM3 +  
(Short Depth Solution)**



MODEL	A+ Server 1012A-M73RF	A+ Server 1012A-MTF	A+ Server 1012A-MRF
Processor Support	8/4-Core AMD Opteron™ 3000 series processors	8/4-Core AMD Opteron™ 3000 series processors	8/4-Core AMD Opteron™ 3000 series processors
Key Applications	File/print server, firewall applications, mail server, web server for small business, server appliance, cluster node	File/print server, firewall applications, mail server, web server for small business, server appliance, cluster node	File/print server, firewall applications, mail server, web server for small business, server appliance, cluster node
Outstanding Features	<ul style="list-style-type: none"> <li>• 4 hot-swap 3.5" SATA /SAS drive bays</li> <li>• RAID: 0, 1, 10</li> <li>• 1 PCI-E 2.0 x4 (in x8 slot)</li> <li>• 32GB of DDR3 Unb. ECC memory</li> <li>• 2 Intel 82574L single-port Gigabit Ethernet, 10/100/1000Base-T support</li> <li>• 400W high-efficiency redundant power supply</li> </ul>	<ul style="list-style-type: none"> <li>• 4 hot-swap 3.5" SATA drive bays</li> <li>• RAID 0,1,10</li> <li>• 1 PCI-E 2.0 x4 (in x8 slot)</li> <li>• 32GB of DDR3 Unb. ECC memory</li> <li>• 2 Intel 82574L single-port Gigabit Ethernet, 10/100/1000Base-T support</li> <li>• 350W high-efficiency power supply</li> </ul>	<ul style="list-style-type: none"> <li>• 2 SATA internal drive bays</li> <li>• RAID: 0, 1</li> <li>• 1 PCI-E 2.0 x4 (in x8 slot)</li> <li>• 32GB of DDR3 Unb. ECC memory</li> <li>• 2 Intel 82574L single-port Gigabit Ethernet, 10/100/1000Base-T support</li> <li>• 200W high-efficiency power supply</li> <li>• 1U Rackmount (14" depth optimized space efficiency)</li> </ul>
Serverboard/Chipset	H8SML-7F HyperTransport™ technology AMD SR5650+SP5100 + LSI 2308	H8SML-iF HyperTransport™ technology AMD SR5650+SP5100	H8SML-iF HyperTransport™ technology AMD SR5650+SP5100
System Memory (Max.)	32GB unbuffered DDR3 ECC 1600/1333/1066 in 4 DIMMs	32GB unbuffered DDR3 ECC 1600/1333/1066 in 4 DIMMs	32GB unbuffered DDR3 ECC 1600/1333/1066 in 4 DIMMs
Expansion Slots	PCI-E 2.0 x4 (in x8 slot)	PCI-E 2.0 x4 (in x8 slot)	PCI-E 2.0 x4 (in x8 slot)
Onboard SAS/SCSI/SATA/IDE/RAID	LSI® 2308 SAS Controller for 4 SAS	AMD SR5650 / SP5100 for 4 SATA 2.0	AMD SR5650 / SP5100 for 2 SATA 2.0
Connectivity/VGA/Audio	Dual LAN with Intel® 82574L Gigabit Ethernet controller Matrox G200eW graphics controller	Dual LAN with Intel® 82574L Gigabit Ethernet controller Matrox G200eW graphics controller	Dual LAN with Intel® 82574L Gigabit Ethernet controller 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	4 hot-swap 3.5" SATA /SAS drive bays	4 hot-swap 3.5" SATA drive bays	2 internal 3.5" drive SATA bays
Peripheral Bays	N/A	N/A	N/A
Power Supply	400W redundant SuperCompact Short-depth AC-DC high-efficiency power supply	350W Gold Level efficiency power supply	200W efficiency power supply
Cooling System	4x 4cm heavy duty counter-rotating fans	4x 4cm heavy duty counter-rotating fans	1 x 10 cm heavy duty counter-rotating fans
Form Factor	1 U Rackmount 437 x 43 x 503 mm (17.2" x 1.7" x 19.8")	1U Rackmount 437 x 43 x 503 mm (17.2" x 1.7" x 19.8")	1U Rackmount (14" Depth) 426 x 43 x 345mm (16.8" x 1.7" x 14")

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

**G34 1U 19.8" Depth UP**

**UP C32**

**C32 1U Twin™**



MODEL	A+ Server 1012G-MTF	A+ Server 1012C-MRF	A+ Server 1022TC-TF/ A+ Server 1022TC-IBQF
Processor Support	16/12/8/4-Core AMD Opteron™ 6000 Series Processors	8/6/4-Core AMD Opteron™ 4000 Series Processors	8/6/4-Core AMD Opteron™ 4000 Series Processors
Key Applications	File/print server, firewall applications, mail server, web server for small business, server appliance, cluster node	File/print server, firewall applications, mail server, web server for small business, server appliance, cluster node	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications
Outstanding Features	<ul style="list-style-type: none"> <li>• Short depth chassis</li> <li>• 4 hot-swap 3.5" SATA drive bays</li> <li>• RAID: 0, 1, 10</li> <li>• 256GB DDR3 1600/1333/1066 SDRAM</li> <li>• 350W <b>Gold Level</b> high-efficiency power supply</li> <li>• IPMI 2.0 management</li> <li>• Cost-effective</li> </ul>	<ul style="list-style-type: none"> <li>• 128GB DDR3 1600/1333/1066 /800 SDRAM</li> <li>• 2 internal 3.5" SATA drive bays</li> <li>• RAID: 0, 1</li> <li>• PCI-E 2.0 x16 support</li> <li>• 2 Gigabit Ethernet ports</li> <li>• Cost-effective</li> <li>• 350W <b>Gold Level</b> high-efficiency power-supply</li> </ul>	<ul style="list-style-type: none"> <li>• Two nodes in 1U</li> <li>• Double density and computing power</li> <li>• Independent power control</li> <li>• Independent cooling control</li> <li>• 2 hot-swap 3.5" SATA drive bays (Per Node)</li> <li>• RAID: 0,1</li> <li>• Higher power utilization increases power-supply efficiency</li> <li>• 920W <b>Platinum Level (94%+)</b> high-efficiency power supply</li> <li>• Reduce power cables and power strips</li> </ul>
Serverboard/Chipset	H8SGL-F / HyperTransport™ technology AMD SR5650+SP5100	H8SCM-F / HyperTransport™ technology AMD SR5650+SP5100	H8DCT-F/-IBQF / HyperTransport™ technology AMD SR5670+SP5100
System Memory (Max.)	256GB ECC Registered DDR3 1600/1333/1066 SDRAM in 8 DIMMs	128GB ECC Registered DDR3 1600/1333/1066/800 SDRAM in 4 DIMMs	Twin set of 192 GB ECC Registered or 64GB unbuffered ECC/non-ECC DDR3 1600/1333/1066 SDRAM in 12 DIMMs
Expansion Slots	1 PCI-E 2.0 x8	1 PCI-E 2.0 x8	Twin set of PCI-E 2.0 x16 via Riser card (low profile)
Onboard SAS/SCSI/ SATA/ IDE/RAID	AMD SP5100 for 4 SATA 2.0	AMD SP5100 for 2 SATA 2.0	Twin set of AMD SP5100 for 2 SATA 2.0
Connectivity/VGA/ Audio	Dual LAN with Intel® 82574L Gigabit Ethernet controller Matrox G200eW graphics controller	Dual LAN with Intel® 82574L Gigabit Ethernet controller Matrox G200eW graphics controller	Twin set of dual LAN with Intel® 82576 Gigabit Ethernet controller Twin set of Mellanox Connect-X 40Gpbs InfiniBand (1022TC-IBQF only) Twin 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	4 hot-swap 3.5" SATA drive bays	2 internal 3.5" drive bays	Twin set of 2 hot-swap 3.5" SATA drive bays
Peripheral Bays	1 slim DVD-ROM drive	1 slim DVD-ROM drive (optional)	N/A
Power Supply	350W <b>Gold Level</b> high-efficiency power supply	350W <b>Gold Level</b> high-efficiency power supply	920W <b>Platinum Level (94%+)</b> high-efficiency power supply
Cooling System	4x 4cm heavy duty fans with air shroud & optimal fan speed control	2x 4cm heavy duty counter-rotating fan with air shroud & optimal fan speed control	Twin set of 3x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	Mini 1U Rackmount 437 x 43 x 369mm (17.2" x 1.7" x 14.5")	1U Rackmount 437 x 43 x 704mm (17.2" x 1.7" x 27.75")