

SUPERMICR[®]

MP Solutions

New Generation 8-Core 4-Way Intel[®] Xeon[®] Processor 7500 Series



X8QB6-F / X8QBE-F



SS8016B-6F / TF



SS8026B-6RF / TRF



SS8046B-6RF / TRF

- 8-Core 4-Way Intel[®] Xeon[®] Processor 7500 series (Nehalem-EX)
- Intel[®] 7500 Chipset (Boxboro-EX) with QPI up to 6.4GT/s
- Supports up to 512GB* ECC Reg. DDR3 in 32 DIMMs (1TB Coming Soon)
- Onboard 6Gb/s SAS (SAS 2.0) with hardware RAID (X8QB6-F)
- 1400W Gold Level redundant high-efficiency power supplies with I²C & PMBus
- Integrated IPMI 2.0 Management + KVM with dedicated LAN
- 1 PCI-E 2.0 x16 for 1U server; and
2 PCI-E 2.0 x16 or 4 PCI-E 2.0 x8 slots for 2U & 4U
- Dual LAN with Intel[®] 82576 Gigabit Ethernet controller

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93% Power Efficiency
For TCO improvement and earth-friendly computing



**8-Core / 4-Way
6 Gb/s SAS**



**8-Core / 4-Way
6 Gb/s SAS**



**8-Core / 4-Way
6 Gb/s SAS**



MODEL	SuperServer 8016B-6F SuperServer 8016B-TF	SuperServer 8026B-6RF SuperServer 8026B-TRF	SuperServer 8046B-6RF SuperServer 8046B-TRF
Key Features	<ul style="list-style-type: none"> Enterprise mission-critical applications, HPC cluster computer nodes, scientific computing Industry's best 1U 4-way architecture 6 Gb/s SAS (SAS2) support (8016B-6F) 32 processing cores in 1U Up to 256GB DDR3 memory 3 hot-swap SAS/SATA drive bays IPMI 2.0 + KVM w/dedicated LAN 1400W Gold Level high-efficiency power supplies 	<ul style="list-style-type: none"> Enterprise mission-critical applications, financial, oil & gas, medical Industry's best 4-way architecture 6 Gb/s SAS (SAS2) support (8026B-6RF) Up to 256GB DDR3 memory 6 hot-swap SAS/SATA drive bays IPMI 2.0 + KVM w/ dedicated LAN 1400W redundant Gold Level high-efficiency power supplies 	<ul style="list-style-type: none"> Enterprise mission-critical applications, e-Commerce, virtualization, graphics Industry's best 4-way architecture 6 Gb/s SAS (SAS2) support (8046B-6RF) 4 Full size PCI-E expansion slots 5 hot-swap SAS/SATA drive bays IPMI 2.0 + KVM w/ dedicated LAN 1400W redundant Gold Level high-efficiency power supplies
Processor Support	Intel® Xeon® processor 7500 series support up to 105W**	Intel® Xeon® processor 7500 series	Intel® Xeon® processor 7500 series
Optimized Serverboard	SUPER● X8QB6-F / X8QBE-F	SUPER● X8QB6-F / X8QBE-F	SUPER● X8QB6-F / X8QBE-F
Chipset	Intel® 7500 chipset with QPI up to 6.4GT/s	Intel® 7500 chipset with QPI up to 6.4GT/s	Intel® 7500 chipset with QPI up to 6.4GT/s
System Memory (max.)	Supports up to 512GB* of DDR3 Reg. ECC 1066/800 MHz SDRAM in 32 DIMM sockets <i>(1TB coming soon!)</i>	Supports up to 512GB* of DDR3 Reg. ECC 1066/800 MHz SDRAM in 32 DIMM sockets <i>(1TB coming soon!)</i>	Supports up to 512GB* of DDR3 Reg. ECC 1066/800 MHz SDRAM in 32 DIMM sockets <i>(1TB coming soon!)</i>
Server Expansion Slots	1 PCI-Express 2.0 x16	Auto-switch from: (all low profile) a. 2 PCI-Express 2.0 x16; or b. 1 PCI-Express 2.0 x16 + 2 PCI-Express 2.0 x8; or c. 4 PCI-Express 2.0 x8	Auto-switch from: a. 2 PCI-Express 2.0 x16; or b. 1 PCI-Express 2.0 x16 + 2 PCI-Express 2.0 x8; or c. 4 PCI-Express 2.0 x8
Onboard SAS RAID	SS8016B-6F: LSI® 2108 6Gb/s SAS2 controller with RAID 0,1,5 SS8016B-TF: Intel® ICH10R for 6 SATA (3Gbps) onboard RAID 0,1,5 (Windows) RAID 0,1 (Linux)	SS8026B-6RF: LSI® 2108 6Gb/s SAS2 controller with RAID 0,1,5,6,10,50 SS8026B-TRF: Intel® ICH10R for 6 SATA (3 Gbps) onboard RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)	SS8046B-6RF: LSI® 2108 6Gb/s SAS2 controller with RAID 0,1,5,6,10 SS8046B-TRF: Intel® ICH10R for 6 SATA (3 Gbps) onboard RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)
Networking/VGA	Dual LAN with Intel® 82576 Gigabit Ethernet controller Matrox G200eW graphics	Dual LAN with Intel® 82576 Gigabit Ethernet controller Matrox G200eW graphics	Dual LAN with Intel® 82576 Gigabit Ethernet controller Matrox G200eW Graphics
Manageability	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog
Drive Bays	3x 3.5" hot-swap SAS/SATA drive bays 1x slim DVD-ROM (optional)	6x 3.5" hot-swap SAS/SATA drive bays 1x slim DVD-ROM drive	5x 3.5" hot-swap SAS/SATA drive bays 3x 5.25" peripheral bays
Power Supply	1400W Gold Level high-efficiency power supply with i°C & PMBus	1400W Gold Level redundant high-efficiency power supplies with i°C & PMBus	1400W Gold Level redundant high-efficiency power supplies with i°C & PMBus
Cooling System	7x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	3x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	3x 9cm + 3x 8cm hot-swap cooling 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")	2U Rackmount 437 x 89 x 709mm (17.2" x 3.5" x 27.9")	4U Rackmount/Tower 452 x 178 x 746mm (17.8" x 7" x 29.4")

* Please check "Tested Memory List" on Supermicro website for compatibility

** 105W CPU support for ambient temperatures below 30°C