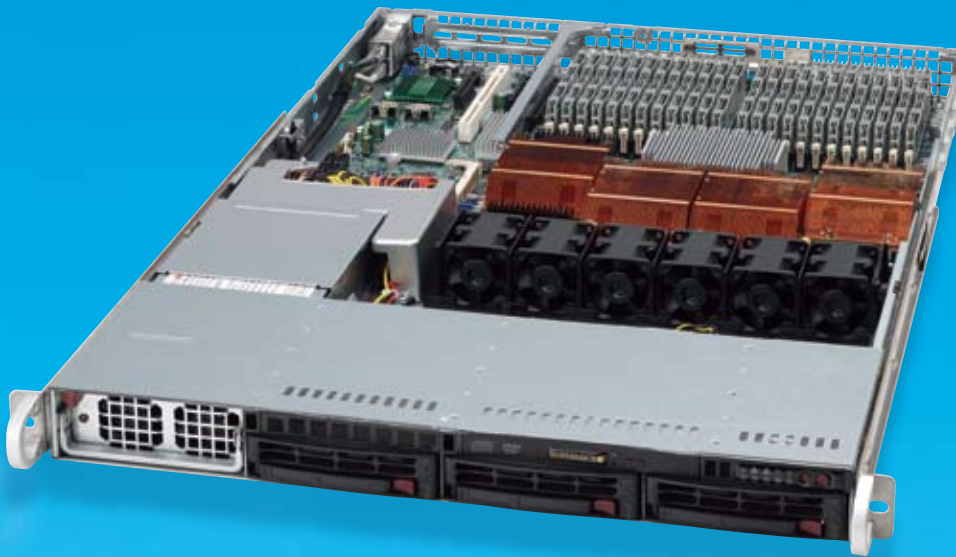# SUPERMICRO®

Quad-Core
Xeon® 7300 Series

The flagship quad-core, quad-processor X7QC3 serverboard boasts the highest performance per watt in the industry. Supporting up to 192GB of fully buffered DDR2 667 or 533 MHz memory via 24 DIMM slots, the X7QC3 is designed to specialize in virtualization; however, the expanded memory capacity also boosts performance for a wide range of applications.

Ready for the new Intel® 7300 series quad-core MP processors, the X7QC3 takes advantage of the various power ratings offered by the new CPU in 1U (SS8015C-T), 2U (SS8025C-3R) and 4U/Tower (SS8045C-3R) formfactors. With performance optimized 130W processors, rack optimized 80W processors, and high-density rack/blade optimized 50W processors, customers now have more flexibility than ever before for their enterprise computing solutions.

Key Features:

- Quad-core/Dual-core Intel® Xeon® MP 7300/7200 CPU Series
- Up to 192GB FB-DIMM in 24 DIMMs
- LSI 1068E SAS Controller (8025C-3R and 8045C-3R)
- High Efficiency Power Supply
- Optimal Cooling System
- Dual Gigabit LAN Ports (Intel® 82575EB)
- IPMI 2.0 with virtual media over LAN & KVM-over-LAN*
  (* Optional AOC-SIMSO(+) card is needed)

SuperServer 8015C-T

SuperServer 8025C-3R

SuperServer 8045C-3R

www.supermicro.com

SuperServer Solutions

Model	SuperServer 8015C-T	SuperServer 8025C-3R	SuperServer 8045C-3R
Processor Support	Quad Intel® Xeon® MP 7300[†]/7200 series	Quad Intel® Xeon® MP 7300/7200 series	Quad Intel® Xeon® MP 7300/7200 series
Key Applications	High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC)	Business critical applications, front-end server, database applications, primary server for mid-size companies, Internet, e-business, server clustering	Business critical applications, front-end server, database applications, primary server for mid-size companies, Internet, e-business, server clustering
Outstanding Features	• Up to 16 cores in 1U • 192GB FB-DIMM memory • Double density and computing power • PCI-E x8 in x16 slot • 1000W high-efficiency power • IPMI 2.0 with virtual media over LAN & KVM-over-LAN w/ optional IPMI card [AOC-SIMSO(+)]	• SAS/SATA drive bays with SES2 • PCI-X & PCI-Express • 192GB FB-DIMM memory • 1200W high-efficiency redundant power • IPMI 2.0 with virtual media over LAN & KVM-over-LAN w/ optional IPMI card [AOC-SIMSO(+)]	• SAS/SATA drive bays with SES2 • PCI-X & PCI-Express • 192GB FB-DIMM memory • 1200W high-efficiency redundant power • IPMI 2.0 with virtual media over LAN & KVM-over-LAN w/ optional IPMI card [AOC-SIMSO(+)]
Chipset/Serverboard	Intel® 7300/SUPER●® X7QCE	Intel® 7300/SUPER●® X7QC3	Intel® 7300/SUPER●® X7QC3
System Memory	192GB fully-buffered DIMM (FBD) DDRII 667/533 in 24 DIMM socket	192GB fully-buffered DIMM (FBD) DDRII 667/533 in 24 DIMM socket	192GB fully-buffered DIMM (FBD) DDRII 667/533 in 24 DIMM socket
Expansion Slots	1 PCI-E x8 in x16	• 1 PCI-E x8 in x16 • 1 PCI-E x8 • 1 PCI-E x4 in x8 • 1 PCI-X 133MHz *(all are low-profile slots)*	• 1 PCI-E x8 in x16 • 1 PCI-E x8 • 1 PCI-E x4 in x8 • 1 PCI-X 133MHz
Onboard SAS/SCSI/ SATA/RAID	Intel® ESB2 for 6 SATA (3Gbps) RAID 0, 1, 5, 10	• LSI 1068E for 8 SAS/SATA; RAID 0,1,10 • Intel® ESB2 for 6 SATA (3Gbps); RAID 0,1,5,10	• LSI 1068E for 8 SAS/SATA; RAID 0,1,10 • Intel® ESB2 for 6 SATA (3Gbps); RAID 0,1,5,10
RAID 5 with iButton	N/A	AOC-iButton68	AOC-iButton68
Onboard LAN/VGA	• Dual LAN with Intel® 82575EB PCI-Express Gigabit Ethernet controller • ATI ES1000 32MB PCI graphics controller	• Dual LAN with Intel® 82575EB PCI-Express Gigabit Ethernet controller • ATI ES1000 32MB PCI graphics controller	• Dual LAN with Intel® 82575EB PCI-Express Gigabit Ethernet controller • ATI ES1000 32MB PCI graphics controller
Manageability	SIMSO socket (IPMI 2.0 with virtual media over LAN & KVM-over-LAN)	SIMSO socket (IPMI 2.0 with virtual media over LAN & KVM-over-LAN)	SIMSO socket (IPMI 2.0 with virtual media over LAN & KVM-over-LAN)
Internal Storage (max.)	3 TB	SAS: 2.4 TB SATA: 6 TB	SAS: 2 TB SATA: 5 TB
Drive Bays	3 x 3.5" hot-swap SATA drive bays with SGPIO	6 x 3.5" hot-swap SAS/SATA drive bays with SES2	5 x 3.5" hot-swap SAS/SATA drive bays with SES2
Peripheral Bays	1 slim DVD-ROM drive	1 slim DVD-ROM drive	• 90-degree rotatable module • 2 USB 2.0 ports & 2 x 5.25"" drive bays, 1 floppy drive
Power Supply	1000W high-efficiency power w/I²C	1200W high-efficiency redundant power w/I²C	1200W high-efficiency redundant power w/I²C
Cooling System	6 x 4cm counter-rotating fans with optimal fan speed control & air shroud	6 x 8cm heavy-duty fans with optimal fan speed control & air shroud	3 x 8cm hot-swap cooling fans & 3 x 8cm exhaust fans with optimal fan speed control & air shroud
Form Factor	1U Rackmount 437x43x705mm (17.2"x1.7"x27.75")	2U Rackmount 483x89x645mm (17.2"x3.5"x25.5")	4U Rackmount/Tower 452x178x746mm (17.8"x 7"x29.4")

[†]*Extreme Edition CPU (130W) is supported with DVD drive + 1 hard drive or 2 hard drives w/o DVD device*

MKT-0005-09-07.1.0

www.supermicro.com