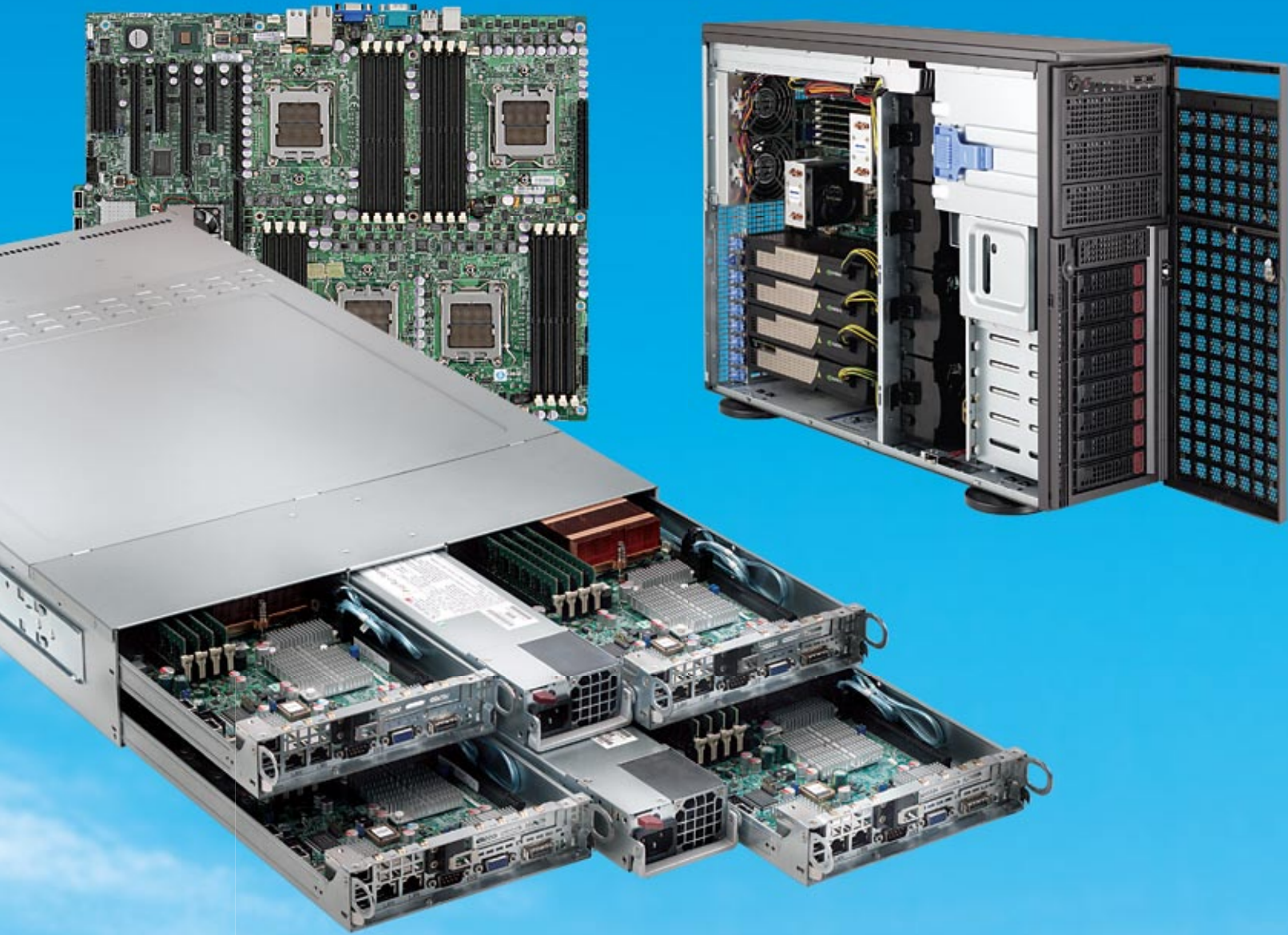


SUPERMICR[®]

Six-Core AMD[®] Opteron[™] Processor-Based Servers



Server Building Block Solutions[®]

Serverboards • Chassis • Power Supplies • Thermal Management



November 2009

Optimized Twin Architecture with Opteron Performance

2U Twin²TM
Four DP Nodes in 2U



- Highest Performance per Watt
- Highest Performance per Dollar
- Four Independent Hot-pluggable DP nodes
- Gold Level Power Supply with Redundancy
- Power-efficient Serverboard & Cooling Subsystem Designs

1U TwinTM
Two DP Nodes in 1U



- Innovation Excellence Server Award
- Double Computing Density
- High-efficiency Power Supply
- Onboard InfiniBand Option
- Onboard 10GbE High Speed Connectivity Option

4-Way Opteron with PCI-E 2.0 for Enterprise & HPC



New! PCI Express 2.0 and HyperTransport 3.0

- Enhanced Motherboard I/O Bandwidth and Performance
- Optimized for QDR InfiniBand Connectivity

More Cores = More Performance

- 6-Core Opteron Support, 24 Cores in 1U
- Best Dollar per Core Value

Peace of Mind & Low TCO

- IPMI2.0 Management with KVM and Virtual Media Option
- High Efficiency Power Supply

Universal I/O HBA and SAS(2.0) RAID Cards

- Cost advantage and investment protection over traditional server platform
- A 8-Lan PCI-Express interface for outstanding performance (Supermicro UIO slot)
- 8 ports, up to 6Gb/s per port for SAS 2.0



Model	Controller/IOP	SAS Port	RAID	Onboard Cache
AOC-USAS2-L8i	LSISAS 2008	8 ports, 6Gb/s per port 8 Internal	RAID 0, 1, 10, 1E	-
AOC-USAS2-L8e	LSISAS 2008	8 ports, 6Gb/s per port 8 Internal	IT/HBA Mode	-
AOC-USAS2LP-H8iR	LSISAS 2108	8 ports, 6Gb/s per port 8 Internal, low profile	RAID 0, 1, 5, 6, 10, 50, 60	512MB DDR2 on-card cache w/ battery back-up option
AOC-USAS2-L8iR	LSISAS 2108	8 ports, 6Gb/s per port 8 Internal	RAID 0, 1, 5, 10	-
AOC-USAS(LP)-L8i	LSISAS 1068E	8 ports, 3Gb/s per port 8 Internal, (low profile)	IT/HBA Mode	-
AOC-USAS-L4i	LSISAS 1068E	8 ports, 3Gb/s per port 4 Internal, 4 External	RAID 0, 1, 10	-
AOC-USAS-L4iR	LSISAS 1068E	8 ports, 3Gb/s per port 4 Internal, 4 External	RAID 0, 1, 10 RAID 5 with iButton	-
AOC-USAS(LP)-H8iR	LSISAS 1078	8 ports, 3Gb/s per port 8 Internal, (low profile)	RAID 0, 1, 5, 6, 10, 50, 60 RAID 5 with iButton	512MB DDR2 on-card cache w/ battery back-up option
AOC-USAS H4iR	LSISAS 1078	8 ports, 3Gb/s per port 4 Internal, 4 External	RAID 0, 1, 5, 6, 10, 50, 60 RAID 5 with iButton	256MB DDR2 on-card cache w/ battery back-up option
AOC-USAS-S4i	Intel IOP348	8 ports, 3Gb/s per port 4 Internal, 4 External	RAID 0, 1, 10	128MB DDR2 on-card cache
AOC-USAS-S4iR	Intel IOP348	8 ports, 3Gb/s per port 4 Internal, 4 External	RAID 0, 1, 5, 10	256MB DDR2 on-card cache w/ battery back-up option
AOC-USAS(LP)-S8i	Intel IOP348	8 ports, 3Gb/s per port 8 Internal, (low profile)	RAID 0, 1, 10	128MB DDR2 on-card cache
AOC-USAS(LP)-Si8R	Intel IOP348	8 ports, 3Gb/s per port 8 Internal, (low profile)	RAID 0, 1, 5, 6, 10, 50	256MB DDR2 on-card cache w/ battery back-up option

UIO (Universal I/O) Networking Cards



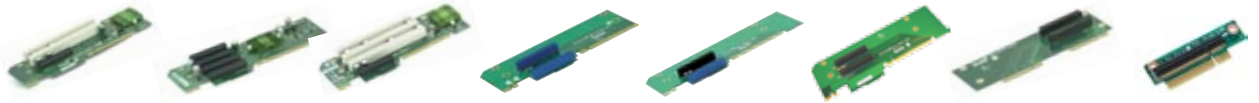
OEM Only

Model	AOC-UINF-M2	AOC-UTG-i2	AOC-UG-i4	AOC-STG-i2	AOC-EXPX9502FXSR
Description	UIO Low-profile dual-port InfiniBand 20Gb card	UIO Full-height dual-port 10Gb card	UIO Full-height quad-port 1Gb card	Standard low-profile dual-port 10Gb card	Standard low-profile dual-port 10Gb card
Interface	PCI-E x8 (Gen 2 compatible)	PCI-E x8 (Gen 2 compatible)	PCI-E x8	PCI-E x8 (Gen 2 compatible)	PCI-E x8
Port	2 CX4 ports	2 CX4 ports	4 RJ45 ports	2 CX4 ports	2 XFP ports
Speed	10 Gigabit/port	10 Gigabit/port	1 Gigabit/port	10 Gigabit/port	10 Gigabit/port

Riser Cards



Model	RSC-R1UU-2E8	RSC-R1UU-UE8	RSC-R1UU-E16	RSC-R2UU-UAX	RSC-R2UU-UA3E8	RSC-R1UU-2U	RSC-R1UU-UAX	RSC-R1UU-AXE8
Form Factor	1U	1U	1U	2U	2U	1U	1U	1U
Fit Type	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot
Output Type	2 PCI-E x8	1 UIO, 1 PCI-E x8	1 PCI-E x16	1 UIO, 3 PCI-X	1 UIO, 3 PCI-E x8	2 UIO	1 UIO, 1 PCI-X	1 PCI-X, 1 PCI-E x8
Speed Type	PCI-E x8	PCI-E x8	PCI-E x16	PCI-E x8, PCI-X	PCI-E x8	PCI-E x8	PCI-E x8, PCI-X	PCI-E x8, PCI-X



Model	RSC-R2UU-A2E8	RSC-R2UU-A4E8	RSC-R2UU-A3XE8	RSC-R2UU-2U	RSC-R2UU-UE8	RSC-R2UU-2E8	RSC-R2UU-2E8R	RSC-R1UU-E8R+
Form Factor	2U	2U	2U	2U	2U	2U	2U	1U
Fit Type	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot	Left Universal slot	Right Universal slot	Right Universal slot
Output Type	2 PCI-X, 1 PCI-E x8	4 PCI-E x8	1 PCI-E x8, 3 PCI-X	2 UIO	1 UIO, 1 PCI-E x8	2 PCI-E x8	2 PCI-E x8	1 PCI-E x8
Speed Type	PCI-E x8, PCI-X	PCI-E x8	PCI-E x8, PCI-X	PCI-E x8	PCI-E x8	PCI-E x8	PCI-E x8	PCI-E x4/x8



Model #	CSE-RR1U-X	CSE-RR1U-XLP	CSE-RR1U-XR	CSE-RR1U-EL	CSE-RR1U-ELP	CSE-RR1U-ER	RSC-RR1U-E8	CSE-RR1U-E16	RSC-RR1U-EHT	RSC-RR1U-HT
Form Factor	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Fit Type	Left PCI-X	Right PCI-X	Right PCI-X	Left Universal PCI	Right Universal PCI	Right Universal PCI	Left PCI-Express	Left PCI-Express x16	Left PCI-Express	Left PCI-Express
Output Type	PCI-X	PCI-X low-profile	PCI-X	PCI-Express	PCI-Express	PCI-Express	PCI-Express	PCI-Express	PCI-E/HT	PCI-E/HT
Speed Type	133/100/66/33MHz	133/100/66/33MHz	133/100/66/33MHz	PCI-Express x8	PCI-Express x8 low-profile	PCI-Express x8 low-profile	PCI-Express x8	PCI-Express x16	PCI-Express x8 HyperTransport	PCI-Express x8 HyperTransport

Zero-Channel RAID Cards and Heatsinks



AOC-LPZCR2 (SAS with SES2)

AOC-LPZCR1 (SCSI & SATA all-in-one)

AOC-SOZCR1 (SCSI & SATA all-in-one)

SNK-P0022+ (1U passive heatsink)

SNK-P0023P+ (Passive heatsink for 2U and above)

SNK-P0012 (1U passive heatsink)

SNK-P0026 (1U Passive heatsink for AM2 socket)

SNK-P0024AP4 4-wire active heatsink for 4U and tower)

	1U		2U		3U		4U	
	Passive	Active	Passive	Active	Passive	Active	Passive	Active
H8SSL-i2	SNK-P0026	N/A	N/A	N/A	N/A	N/A	N/A	SNK-P0027AP4
H8SMU	SNK-P0026	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H8SMU/A-2	SNK-P0026	N/A	N/A	N/A	N/A	N/A	N/A	SNK-P0027AP4
H8DMR-82/i2	SNK-P0022+	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H8DM8/E-2	SNK-P0022+	N/A	SNK-P0023P	N/A	N/A	N/A	SNK-P0023P	N/A
H8DM3/i-2	N/A	N/A	SNK-P0023P	N/A	N/A	N/A	SNK-P0023P	N/A
H8DMU+	SNK-P0022+	N/A	SNK-P0023P	N/A	N/A	N/A	N/A	N/A
H8DMT-INF+	SNK-P0022+	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H8DA3/i-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	SNK-P0024AP4
H8DA8/E-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	SNK-P0024AP4
H8DMT/-IBX(F)	SNK-P0022+	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H8DI3/i+(-F)	N/A	N/A	SNK-P0023P+	N/A	N/A	N/A	N/A	N/A
H8DA6+/i+(-F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	SNK-P0024AP4
H8QM8/E-2	N/A	N/A	N/A	N/A	N/A	N/A	SNK-P0023P+	N/A
H8QM8/E-2+	SNK-P0022+	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H8QM3/i-2	N/A	N/A	SNK-P0023P+	N/A	N/A	N/A	SNK-P0023P+	N/A
H8QM3/i-2+	SNK-P0022+	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H8QI6/i+(-F)	SNK-P0022+	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H8QI6/i-F	N/A	N/A	SNK-P0023P+	N/A	N/A	N/A	SNK-P0023P	N/A

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Model	H8QI6-F/H8QIi-F	H8QI6+-F/H8QIi+-F	H8QM3-2/H8QM3-2+ H8QM3-2+/H8QM3-2+	H8QM8-2/H8QME-2 H8QM8-2+/H8QME-2+	H8QC8/H8QCE H8QC8+/H8QCE+
Processor	Six-Core AMD® Opteron™ 8000 Series Processors	Six-Core AMD® Opteron™ 8000 Series Processors	Six-Core AMD® Opteron™ 8000 Series Processors	Six-Core AMD® Opteron™ 8000 Series Processors	Dual-Core AMD® Opteron™ 800 Series Processors
Chipset	Dual AMD SR5690/SP5100	AMD SR5690/SP5100	nVidia MCP55-Pro NEC 720400 PCI-X Bridge	nVidia MCP55-Pro AMD 8132 PCI-X Tunnel	nVidia nForce Pro 2200 AMD 8132 PCI-X Tunnel
Form Factor	SWTX 16.4" x 13"	SWTX 16.4" x 13"	SWTX 16.4" x 13"	SWTX 16" x 13"	SWTX 16" x 13"
Optimized Chassis	2U: SC828TQ-R1200LP 4U: SC748TQ-R1200** SC848A-R1800**	1U: SC818TQ+-1000	H8QM3-2+/H8QM3-2+: 1U: SC818TQ+-1000LP** H8QM3-2/H8QM3-2: 2U: SC828TQ-R1200LP 4U: SC748TQ-R1200** SC848TQ-R1800**	H8QM8-2+: 1U: SC818S+-1000 H8QME-2+: 1U: SC818TQ+-1000 H8QM8-2: 4U: SC748S-R1000 H8QME-2: 2U: SC828TQ-R1200LP 4U: SC748TQ-R1000 SC848TQ-R1800	H8QC8+: 1U: SC818S+-1000 H8QCE+: 1U: SC818TQ+-1000 H8QC8: 4U: SC748S-R1000 H8QCE: 4U: SC748TQ-R1000 SC848TQ-R1800
Memory Capacity & Slots	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs	256 GB ECC Registered DDR2 800/667/533 SDRAM in 32 DIMMs*	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs	64 GB ECC Registered DDR 400/333/266 SDRAM in 16 DIMMs
Expansion Slots	3 PCI-Express 2.0 x16 1 PCI-Express 2.0 x8 2 PCI-Express 2.0 x4 (using x8 slot) 1 Universal I/O slot	1 HyperTransport slot 1 PCI-Express 2.0 x16	H8QM3-2/H8QM3-2+: 2 PCI-Express x16 1 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 1 64-bit PCI-X 133 SIMLC slot H8QM3-2+/H8QM3-2+: 1 PCI-Express x16 SIMLC slot	H8QM8-2/H8QME-2: 1 HyperTransport slot 1 PCI-Express x16 1 PCI-Express x8 1 PCI-Express x8 SIMSO socket 2 PCI-X 133/100 MHz 2 PCI-X 100 MHz SIMSO socket	H8QC8/H8QCE: 1 HyperTransport slot 1 PCI-Express x8 1 PCI-Express x8 2 PCI-X 133/100 MHz 2 PCI-X 100 MHz IPMI socket
Onboard SAS/SCSI/SATA/RAID	LSI 2008 SAS2 Controller for 8 SAS2/ SATA ports (H8QI6-F only) 6 SATA2 ports, RAID 0, 1, 10	LSI 2008 SAS2 Controller for 8 SAS2/ SATA ports (H8QI6+-F only) 6 SATA2 ports, RAID 0, 1, 10	LSI 1068E SAS Controller for 8 SAS/ SATA ports (H8QM3-2/H8QM3-2+ only) nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DM8-2/H8DM8-2+ only) nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8QC8/H8QC8+ only) nVidia nForce Pro SATA for 4 SATA2 ports, RAID 0, 1, 0+1, JBOD
RAID Support	AOC-IMRRAKEY-2008-LSI (H8QI6-F only)	AOC-IMRRAKEY-2008-LSI (H8QI6+-F only)	AOC-iButton68 (H8QM3-2/H8QM3-2+ only)	AOC-LPZCR1 or AOC-LPZCR2 (H8DM8-2/H8DM8-2+ only)	AOC-LPZCR1 or AOC-LPZCR2 (H8QC8/H8QC8+ only)
Onboard LAN	Dual LAN with Intel 82576 Gigabit Ethernet	Dual LAN with Intel 82576 Gigabit Ethernet	Dual LAN with Intel 82546GB Gigabit Ethernet	Dual LAN with Intel 82546GB Gigabit Ethernet	Dual LAN with Intel 82546GB Gigabit Ethernet
Onboard VGA	Matrox G200eW graphics controller	Matrox G200eW graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/USB Ports	ATA133/100 Up to 6 USB 2.0 ports	ATA133/100 Up to 6 USB 2.0 ports	ATA133/100 Up to 4 USB 2.0 ports	ATA133/100 Up to 4 USB 2.0 ports	Dual ATA133/100 Up to 4 USB 2.0 ports
Other Onboard I/O Devices	2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports 1 ECP/EPP parallel port PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports 1 ECP/EPP parallel port PS/2 mouse & keyboard conn.
Manageability	Winbond WPCM450 BMC IPMI 2.0, KVM and VM options, Watch Dog, SuperDoctor III	Winbond WPCM450 BMC IPMI 2.0, KVM and VM options, Watch Dog, SuperDoctor III	SIMLC (IPMI 2.0) with KVM and virtual media option, Watch Dog, SuperDoctor III	SIMSO(+)(IPMI 2.0) with virtual media option, Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III
PC Health Monitoring	Monitors CPU core voltages, 3.3V, +5V, +12V, 5V standby, VBAT, and total of 9-fan status, supports system manage- ment utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, 5V standby, VBAT, and total of 9-fan status, supports system manage- ment utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, 5V standby, VBAT, and total of 9-fan status, supports system manage- ment utility, chassis intrusion header	Monitors CPU core voltages, +5V, +12V, 3.3V, 5V standby, VBAT, and total of 9-fan status, supports system manage- ment utility, chassis intrusion header	Monitors CPU core voltages, +5V, +12V, 3.3V, 5V standby, VBAT, and total of 9-fan status, supports system management utility, chassis intrusion header
Thermal Control	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication
Other Features	ACPI power management, Internal/ external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, Internal/ external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, Internal/ex- ternal modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/ex- ternal modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI/API power management, internal/ external modem ring-on, WOL, control of power-on mode for recovery from AC power loss
BIOS	AMI 16 Mb SPI Flash ROM	AMI 16 Mb SPI Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM

* Fully populated DDR2 800/667 memory will be downgraded to DDR2 533
** Please refer to page 4 for extra component are needed.

OPTIMIZED CHASSIS HIGHLIGHTS



SUPER® SC818S+-1000

- 3 hot-swap drive bays w/SAF-TE
- 6 heavy duty counter-rotating fans
- 1000W power supply
- High efficiency power
- 1U x 27.75"



SUPER® SC818TQ+-1000

- 3 hot-swap SATA/SAS drive bays
- 6 heavy duty counter-rotating fans
- 1000W power supply
- High efficiency power
- 1U x 27.75"



SUPER® SC818TQ+-1000LP

- 3 hot-swap drive bays
- 6 heavy duty counter-rotating fans
- 1000W redundant power supply
- High efficiency power
- 1U x 27.75"



SUPER® SC828TQ-R1200

- 6 hot-swap drive bays
- 6 hot-swap cooling fans
- 1200W redundant power supply
- High efficiency power
- 2U x 27.75"



SUPER® SC848A-R1800B

- 24 hot-swap drive bays
- 7 hot-swap cooling fans
- 1800W redundant (2+1) power supply
- High efficiency power
- 4U x 26"



SUPER® SC748TQ-R1000/R1200

- 5 hot-swap SATA/SAS drive bays
- Up to 10 hot-swap drive bays
- 6 hot-swap cooling fans
- 1000/1200W redundant power supply
- High efficiency power
- 4U/Tower x 29.4"

Key Features and Accessories

MB Chassis	H8QI6-F/H8QIi-F	H8QI6+-F/H8QIi+-F	H8QM3-2/H8QMi-2 H8QM3-2+/H8QMi-2+	H8QM8-2/H8QME-2 H8QM8-2+/H8QCE-2+	H8QC8/H8QCE H8QC8+/H8QCE+
SC818 Series		SC818TQ+-1000(SAS/SATA) • 3 hot-swap drive bays • 1000W power supply with I ² C mgt. • 1U Passive heatsink*: SNK-P0022+ • 1U Riser card*: CSE-RR1U-E16	SC818TQ+-1000LP(SAS/SATA) • 3 hot-swap drive bays • 1000W power supply with I ² C mgt. • 1U Passive heatsink*: SNK-P0022+ • 1U Riser card*: CSE-RR1U-E16	SC818TQ+-1000 (SATA) SC818S+-1000 (SCSI) • 3 hot-swap drive bays • 1000W power supply with I ² C mgt. • 1U Passive heatsink*: SNK-P0022+ • 1U Riser cards*: CSE-RR1U-E16	SC818TQ+-1000 (SATA) SC818S+-1000 (SCSI) • 3 hot-swap drive bays • 1000W power supply with I ² C mgt. • 1U Passive heatsink*: SNK-P0022+ • 1U Riser cards*: CSE-RR1U-E8
SC828 Series	SC828TQ-R1200LP (SAS/SATA) • 6 hot-swap drive bays • 1200W Redundant with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+		SC828TQ-R1200LP (SAS/SATA) • 6 hot-swap drive bays • 1200W Redundant with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+	SC828TQ-R1200LP(SAS/SATA) • 6 hot-swap SAS/SATA drive bays • 1200W Redundant with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+	
SC748 Series	SC748TQ-R1200 (SATA/SAS) • 5 hot-swap drive bays • 1200W Redundant with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P • Mounting Rails*: MCP-290-00001-00		SC748TQ-R1200 (SATA/SAS) • 5 hot-swap drive bays • 1200W Redundant with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+ • Air shroud*: MCP-310-74802-0B • Mounting Rails*: MCP-290-00001-00	SC748TQ-R1000 (SATA) SC748S-R1000 (SCSI) • 5 hot-swap drive bays • 1000 W (1 +1) Redundant with I ² C mgt. • 2U Passive Heatsink*: SNK-P0023P • Mounting Rails*: MCP-290-000001-00	SC748TQ-R1000 (SATA) SC748S-R1000 (SCSI) • 5 hot-swap drive bays • 1000 W (1 +1) Redundant with I ² C mgt. • 2U Passive Heatsink*: SNK-P0023P • Mounting Rails*: MCP-290-000001-00
SC848 Series	SC848TQ-R1800B (SATA/SAS) • 24 3.5" hot-swap drive bays • Redundant (2+1) 1800W with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+ • Air shroud*: MCP-310-84802-0B • Mounting Rails*: MCP-290-00001-001		SC848TQ-R1800B (SATA/SAS) • 24 3.5" hot-swap drive bays • Redundant (2+1) 1800W with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+ • Air shroud*: MCP-310-84801-0B • Mounting Rails*: MCP-290-00001-00	SC848TQ-R1800B (SATA/SAS) • 24 3.5" hot-swap drive bays • Redundant (2+1) 1800W with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+ • Air shroud*: MCP-310-84801-0B • Mounting Rails*: MCP-290-00001-00	SC848TQ-R1800B (SATA/SAS) • 24 3.5" hot-swap drive bays • Redundant (2+1) 1800W with I ² C mgt. • 2U Passive heatsink*: SNK-P0023P+ • Air shroud*: MCP-310-84801-0B • Mounting Rails*: MCP-290-00001-00

* Sold separately

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Model	H8DI3+(-F)	H8DIi+(-F)	H8DM8-2/H8DME-2	H8DM3-2/H8DMi-2	H8DA8-2/H8DAE-2
Processor	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors
Chipset	AMD SR5690/SP5100 NEC 720400 PCI-X Bridge	AMD SR5690/SP5100 NEC 720400 PCI-X Bridge	nVidia MCP55-Pro NEC 720400 PCI-X Bridge	nVidia MCP55-Pro AMD 8132 PCI-X Tunnel	nVidia MCP55-Pro + IO55 NEC 720400 PCI-X Bridge
Form Factor	EATX 12" x 13.05"	EATX 12" x 13.05"	EATX 12" x 13.05"	EATX 12" x 13.05"	EATX 12" x 13.05"
Optimized Chassis	<p>2U: SC825TQ-R720LP** SC213A-R900LP SC216A-R900LP</p> <p>3U: SC836TQ-R800 SC833T-R760</p> <p>4U: SC745TQ-R800** SC743TQ/i-R760/650</p>	<p>2U: SC825TQ-R720LP** SC213A-R900LP SC216A-R900LP</p> <p>3U: SC836TQ-R800 SC833T-R760</p> <p>4U: SC745TQ-R800** SC743TQ/i-R760/650</p>	<p>H8DM8-2: 2U: SC825S2-R700LP** 3U: SC836S2-R800 4U: SC745S2-R800** SC743S1/SC743S2-R760 SC743S1/SC743S2-650</p> <p>H8DME-2: 2U: SC825TQ-R700LP**, SC213A-R900LP, SC216A-R900LP 3U: SC836TQ-R800, SC836E2-R800, SC836E1-R800 4U: SC745TQ-R800**, SC743TQ-R760, SC743T-650, SC743i-R760/650</p>	<p>2U: SC825TQ-R700LP** SC213A-R900LP SC216A-R900LP</p> <p>3U: SC836TQ-R800 SC833T-R760</p> <p>4U: SC745TQ-R800** SC743TQ/i-R760/650</p>	<p>H8DA8-2: 4U: SC745S2-R800/800** SC743S1-645</p> <p>H8DAE-2: 4U: SC743T-645 SC743TQ-650 SC743TQ-865</p>
Memory Capacity & Slots	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs*	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs*	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs*	64 GB ECC Registered DDR2 800/667/533 SDRAM in 8 DIMMs	64 GB ECC Registered DDR2 800/667/533 SDRAM in 8 DIMMs
Expansion Slots	2 PCI-Express 2.0 x8 (using x16 slot) 1 PCI-Express 2.0 x4 (using x8 slot) 1 PCI-Express x8 2 64-bit PCI-X 133/100 MHz	2 PCI-Express 2.0 x8 (using x16 slot) 1 PCI-Express 2.0 x4 (using x8 slot) 1 PCI-Express x8 2 64-bit PCI-X 133/100 MHz	2 PCI-Express x8 2 64-bit PCI-X 133/100 MHz 2 64-bit PCI-X 100 MHz SIMLC slot	2 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 2 64-bit PCI-X 133/100 MHz 1 64-bit PCI-X 133 MHz SIMLP slot	2 PCI-Express x16 1 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 1 64-bit PCI-X 133 MHz 1 64-bit PCI-X 100 MHz SIMLP slot
Onboard SAS/SCSI/SATA/RAID	LSI 1068E SAS Controller 6 SATA2 ports, RAID 0, 1, 10	6 SATA2 ports, RAID 0, 1, 10	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DM8-2 only) nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	LSI 1068E SAS Controller (H8DM3-2 only) nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DA8-2 only) nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD
RAID Support	AOC-iButton68	N/A	AOC-LPZCR1 or AOC-LPZCR2 (H8DM8-2 only)	AOC-iButton68 (H8DM3-2 only)	AOC-LPZCR1 or AOC-LPZCR2 (H8DA8-2 only)
Onboard LAN	Dual LAN with two Intel 82574L Gigabit Ethernet	Dual LAN with two Intel 82574L Gigabit Ethernet	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet
Onboard VGA	Matrox G200eW graphics controller	Matrox G200eW graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	N/A
Built-in EIDE/USB Ports	Single ATA133/100 Up to 6 USB 2.0 ports	Single ATA133/100 Up to 6 USB 2.0 ports	Single ATA133/100 Up to 6 USB 2.0 ports	Single ATA133/100 Up to 6 USB 2.0 ports	Single ATA133/100 Up to 8 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 1 ECP/EPP parallel port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 1 ECP/EPP parallel port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn. ALC883 audio CODEC high def. 7.1- channel sound Front-side audio header 2 IEEE1394 headers
Manageability	IPMI 2.0 + KVM with dedicated LAN (F version only), Watch Dog, SuperDoctor III	IPMI 2.0 + KVM with dedicated LAN (F version only), Watch Dog, SuperDoctor III	SIMLC (IPMI 2.0) with KVM and virtual media option, Watch Dog, SuperDoctor III	SIMLP(+)(IPMI 2.0) with KVM and virtual media option, Watch Dog, SuperDoctor III	SIMLP(+)(IPMI 2.0) with virtual media option, Watch Dog, SuperDoctor III
PC Health Monitoring	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan status, supports system manage- ment utility, mem VTT, MCP55 Vcore, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan status, supports system manage- ment utility, mem VTT, MCP55 Vcore, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan status, supports system manage- ment utility, mem VTT, MCP55 Vcore, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, VBAT, and total of 8-fan status, supports system manage- ment utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan status, supports system manage- ment utility, mem VTT, MCP55 Vcore, chassis intrusion header
Thermal Control	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	PWM Fan speed control & overheat LED indication
Other Features	ACPI power management, internal/ external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/ external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/ex- ternal modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/ex- ternal modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/ex- ternal modem ring-on, WOL, control of power-on mode for recovery from AC power loss & S3 STR support
BIOS	AMI 16 Mb SPI Flash ROM	AMI 16 Mb SPI Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM

*Fully populated DDR2 800/667 memory will be down-graded to DDR2 533
** Please refer to page 6 for extra component are needed

OPTIMIZED CHASSIS HIGHLIGHTS



SUPER® SC745 Series

- 8 hot-swap drive bays
- Tower/4U rackmount server chassis
- 7 Tool-less expansion slots.
- 90-degree rotatable drive bay module
- 100% cooling redundancy
- Redundant power supply with I°C mgt.
- 4U/Tower x 25.5"



SUPER® SC743S1/SC743T-645/865

- 8 hot-swap drive bays
- 7 Tool-less expansion slots
- 90-degree rotatable drive bay module
- 645W low noise power supply
- Hot-swap redundant PWM cooling fans
- 4U/Tower x 25.5"



SUPER® SC213 Series

- 16 hot-swap 2.6" SAS/SATA drive bays
- UIO optimized
- 900W redundant power supply with I°C mgt.
- High Efficiency Power
- 2U x 25.5"



SUPER® SC825S2/SC825TQ-R720/R700

- 8 dual-channel (4+4) hot-swap drive bays w/SAF-TE (SC825S2)
- 8 hot-swap SAS/SATA drive bays (SC825TQ)
- Up to 7 low profile expansion cards
- 720W/700W high efficiency redundant power supply with I°C mgt.
- High Efficiency Power
- 2U x 25.5"



SUPER® SC836 Series

- 16 hot-swap SAS drive bays w/SES2 (SC836E series)
- 16 dual-channel (8 + 8) SCA hot-swap drive bays w/SAF-TE (SC836S series)
- Up to 7 expansion slots
- 800W redundant power supply with I°C mgt.
- High Efficiency Power
- 3U x 25.5"

Key Features and Accessories

MB Chassis	H8DI3+(-F)	H8DI+(-F)	H8DM8-2/ H8DME-2	H8DM3-2/ H8DM-i2	H8DA8-2/ H8DAE-2
SC745 Series	SC745TQ-R1200/R800/800 · 8 hot-swap drive bays · 100% Cooling & High Performance · 4U/x25.5 Tower convertible · 800W redundant/single 800W power · Passive heatsink* SNK-P0023P · Air Shroud*: CSE-PT0123	SC745TQ-R1200/R800/800 · 8 hot-swap drive bays · 100% Cooling & High Performance · 4U/x25.5 Tower convertible · 800W redundant/single 800W power · Passive heatsink* SNK-P0023P · Air Shroud*: CSE-PT0123	SC745S2-R800/800 (SCSI) SC745TQ-R800/800 (SATA) · 8 hot-swap drive bays · 100% Cooling & High Performance · 4U/x25.5 Tower convertible · 800W redundant/single 800W power · Passive heatsink* SNK-P0023P · Air Shroud*: CSE-PT0123	SC745TQ-R800 (SAS/SATA) · 4U/25.5 Tower convertible · 8 hot-swap drive bays · 800W redundancy/single 800W power · Passive heatsink* SNK-P0023P · Air Shroud*: CSE-PT0123	SC745S2-700/R800 (SCSI) SC745TQ-700/R800 (SATA) · 4U/Tower convertible · 8 hot-swap drive bays · 700W or 800W with redundancy · Passive heatsink* SNK-P0023P · Air shroud: CSE-PT0123
SC743 Series	SC743TQ-R760/650/865 · 4U/Tower convertible · 8 hot-swap drive bays · Triple 760W/single 650W power supply · Passive heatsink*: SNK-P0023P · Air Shroud*: CSE-PT0123	SC743TQ-R760/650/865 · 4U/Tower convertible · 8 hot-swap drive bays · Triple 760W/single 650W power supply · Passive heatsink*: SNK-P0023P · Air Shroud*: CSE-PT0123	SC743S1-R760/650 (SCSI) SC743TQ-R760/650/865 (SATA) · 4U/Tower convertible · 8 hot-swap drive bays · Triple 760W/single 650W power supply · Passive heatsink*: SNK-P0023P	SC743T/TQ-R760/650/865 (SAS/SATA) · 4U/Tower convertible · 8 hot-swap drive bays · Triple 760W/single 650W power supply · Passive heatsink*: SNK-P0023P	SC743S1-645 (SCSI) SC743T-645 (SATA) · 8 hot-swap drive bays · Low-noise PWM cooling fan · 645W power supply · Active heatsink*: SNK-P0024AP4
SC213 Series	SC213A-R900LPB SC213E1-R900LPB · 16 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P+ · Air shroud*: MCP-310-82510-0B	SC213A-R900LPB SC213E1-R900LPB · 16 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P+ · Air shroud*: MCP-310-82510-0B	SC213A-R900LPB (SAS/SATA) SC213E1-R900LPB · 16 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00025-01	SC213A-R900LPB (SAS/SATA) SC213E1-R900LPB · 16 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00025-01	
SC216 Series	SC216A-R900LPB SC216E1/E2-R900LPB · 24 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P+ · Air shroud*: MCP-310-82510-0B	SC216A-R900LPB SC216E1/E2-R900LPB · 24 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00025-01	SC216A-R900LPB (SAS/SATA) SC216E1/E2-R900LPB · 24 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00025-01	SC216A-R900LPB (SAS/SATA) SC216E1/E2-R900LPB · 24 2.5" hot-swap drive bays · Redundant 900W with I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00025-01	
SC825 Series	SC825TQ-R720LP · 8 hot-swap drive bays · Redundant 720W power supply · High Efficiency Power · Passive heatsink*: SNK-P0023P+ · Air shroud*: MCP-310-82510-0B	SC825TQ-R720LP · 8 hot-swap drive bays · Redundant 720W power supply · High Efficiency Power · Passive heatsink*: SNK-P0023P+ · Air shroud*: MCP-310-00025-01	SC825S2/SC825TQ-R700LP · 8 hot-swap drive bays · Redundant 700W power supply · High Efficiency Power · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00025-01	SC825TQ-R700LP · 8 hot-swap drive bays · 700W redundant power supply · High Efficiency Power · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00030-01	
SC836 Series	SC836TQ-R800 SC836E2/SC836E1-R800 · 16 hot-swap drive bays · 800W Redundant power supply w/ I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00004-00	SC836TQ-R800 SC836E2/SC836E1-R800 · 16 hot-swap drive bays · 800W Redundant power supply w/ I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00004-00	SC836S2-R800 (SCSI) SC836TQ-R800 (SAS/SATA) SC836E2/SC836E1-R800(SAS/SATA) · 16 hot-swap drive bays · 800W Redundant power supply w/ I°C mgt. · Passive heatsink*: SNK-P0023P · Air shroud*: MCP-310-00004-00	SC836TQ-R800 (SAS/SATA) · 16 hot-swap drive bays · 800W Redundant power supply w/ I°C mgt. · Passive heatsink*: SNK-P0023P	

* Sold separately

NEW!

NEW!

**H8DMT-INF+
Shown**

**H8DMT-IBX
Shown**



Model	H8DA6+(-F)	H8DAi+(-F)	H8DA3-2/H8DAi-2	H8DMT-INF+/H8DMT+	H8DMT-IBX(F)/H8DMT-(F)
Processor	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors
Chipset	Dual AMD SR5690/SP5100	Dual AMD SR5690/SP5100	nVidia MCP55-Pro + IO55	nVidia MCP55V-Pro	nVidia MCP55-Pro
Form Factor	EATX 13.68" x 13.05"	EATX 13.68" x 13.05"	EATX 12" x 13.05"	Proprietary 16.64" x 6.8"	Proprietary 16.4" x 6.5"
Optimized Chassis	4U: SC747TG-R1400SQ SC745TQ-R800	4U: SC747TG-R1400SQ SC745TQ-R800	4U: SC743T-645 SC743TQ-865	1U: SC808T-980 SC809T-980	1U: SC808T-780 SC809T-780
Memory Capacity & Slots	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs*	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs*	64 GB ECC Registered DDR2 800/667/533 SDRAM in 8 DIMMs	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs*	64 GB ECC Registered DDR2 800/667/533 SDRAM in 8 DIMMs
Expansion Slots	4 PCI-Express 2.0 x16 2 PCI-Express 2.0 x4 (using x8 slots) 1 32-bit PCI	4 PCI-Express 2.0 x16 2 PCI-Express 2.0 x4 (using x8 slots) 1 32-bit PCI	2 PCI-Express x16 1 PCI-Express x8 (using x16 slot) 2 PCI-Express x4 (using x8 slots) 1 32-bit PCI SIMLP slot	1 PCI-Express x16 SIMSO socket	1 PCI-Express x16
Onboard SAS/SCSI/SATA/RAID	LSI 2008 SAS2 Controller for 8 SAS2/SATA ports 6 SATA2 ports, RAID 0, 1, 10	6 SATA2 ports, RAID 0, 1, 10	LSI 1068E SAS controller (H8DA3-2 only) nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	nVidia MCP55V-Pro for 4 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	nVidia MCP55V-Pro for 4 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD
RAID Support	AOC-IMRRAKEY-2008-LSI	N/A	AOC-iButton68 (H8DA3-2 only)	N/A	N/A
Onboard LAN	Dual LAN with Intel 82576 Gigabit Ethernet	Dual LAN with Intel 82576 Gigabit Ethernet	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet	Dual LAN with nVidia MCP55V-Pro Gigabit Ethernet	Intel 82575 Dual-port GbE controller w/ VMDq support
Onboard VGA	Matrox G200eW graphics	Matrox G200eW graphics	N/A	XGI Z9S 32Mb graphics controller	Matrox G200eW graphics
Built-in EIDE/USB Ports	Single ATA133/100 Up to 10 USB 2.0 ports	Single ATA133/100 Up to 10 USB 2.0 ports	Single ATA133/100 Up to 8 USB 2.0 ports	Up to 6 USB 2.0 ports	Up to 6 USB 2.0 ports
Other Onboard I/O Devices	2 fast UART 16550 serial ports 2 IEEE 1394 single port w/ header PS/2 mouse & keyboard conn. HD Audio Front-side audio header	2 fast UART 16550 serial ports 2 IEEE 1394 single port w/ header PS/2 mouse & keyboard conn. HD Audio Front-side audio header	1 floppy port 1 ECP/EPP parallel port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn. ALC883 audio CODEC high def. 7.1-channel sound Front-side audio header	2 fast UART 16550 serial ports Mellanox InfiniHost III MT25204 20Gbps Infiniband (H8DMT-INF+ only)	2 fast UART 16550 serial ports Mellanox Connect-X MT25408A0-FCC-DI 20Gbps Infiniband (H8DMT-IBX(F) only)
Manageability	IPMI 2.0 + KVM with dedicated LAN (F version only), Watch Dog, SuperDoctor III	IPMI 2.0 + KVM with dedicated LAN (F version only), Watch Dog, SuperDoctor III	SIMLP(+) (IPMI 2.0) with virtual media option, Watch Dog, SuperDoctor III	SIMSO(+) IPMI 2.0 (H8DMT-INF+&H8DMT+ only), IPMI 2.0, KVM and VM options, Watch Dog, SDIII	IPMI 2.0 + KVM with dedicated LAN (F version only), Watch Dog, SuperDoctor III
PC Health Monitoring	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 3.3V standby, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, CHP, and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 3.3V standby, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, CHP, and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, 5V standby, VBAT, and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan or 4-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan or 4-fan status, supports system management utility, chassis intrusion header
Thermal Control	PWM Fan speed control & overheat LED indication	PWM Fan speed control & overheat LED indication	PWM Fan speed control & overheat LED indication	Fan speed control or PWM fan speed control & overheat LED indication	Fan speed control or PWM fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss & S3 STR support	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss & S3 STR support	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss & S3 STR support	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss
BIOS	AMI 16 Mb SPI Flash ROM	AMI 16 Mb SPI Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb SPI Flash ROM

*Fully populated DDR2 800/667 memory will be down-graded to DDR2 533

** Please refer to page 6 for extra component are needed

OPTIMIZED CHASSIS HIGHLIGHTS



SUPER® SC745 Series

- 8 hot-swap drive bays
- Tower/4U rackmount server chassis
- 7 Tool-less expansion slots
- 90-degree rotatable drive bay module
- 100% cooling redundancy
- Redundant power supply with I°C mgt.
- 4U/Tower x 25.5"



SUPER® SC743S1/SC743T-645/865

- 8 hot-swap drive bays
- 7 Tool-less expansion slots
- 90-degree rotatable drive bay module
- 645W low noise power supply
- Hot-swap redundant PWM cooling fans
- 4U/Tower x 25.5"



SUPER® SC747TG-R1400SQ

- Optimized for GPU, support up to 4 GPU cards
- 8 hot-swap drive bays
- 90-degree rotatable drive bay module
- Gold Level 1400W redundant power supply
- Hot-swap redundant PWM cooling fans
- 4U/Tower x 29.4"



SUPER® SC808T-980/780

- Optimized 1U Twin™ chassis
- High Density two nodes in 1U space
- 3.5" HDD support
- Independent power control
- 980W/780W High Efficiency Power with I°C mgt.
- 1U x 27.75"



SUPER® SC809T-980/780

- Optimized 1U Twin™ chassis
- High Density two nodes in 1U space
- Power Efficient 2.5" HDD support
- Independent power control
- 980W/780W High Efficiency Power with I°C mgt.
- 1U x 27.75"

Key Features and Accessories

MB Chassis	H8DA6+(-F)	H8DAi+(-F)	H8DA3-2/ H8DAi-2	H8DMT-INF+/ H8DMT+	H8DMT-IBX/ H8DMT
SC747 Series	SC747TG-R1400SQ • Optimized for GPU • 8 hot-swap drive bays • 4U/x29.4 Tower convertible • Gold Level 1400W redundant power supply • Active heatsink*: SNK-P0024AP4	SC747TG-R1400SQ • Optimized for GPU • 8 hot-swap drive bays • 4U/x29.4 Tower convertible • Gold Level 1400W redundant power supply • Active heatsink*: SNK-P0024AP4			
SC745 Series	SC745TQ-R800/800 • 8 hot-swap drive bays • 100% Cooling & High Performance • 4U/x25.5 Tower convertible • 800W redundant/single 800W power • Passive heatsink*: SNK-P0023P • Air Shroud*: CSE-PT0123	SC745TQ-R800/800 • 8 hot-swap drive bays • 100% Cooling & High Performance • 4U/x25.5 Tower convertible • 800W redundant/single 800W power • Passive heatsink*: SNK-P0023P • Air Shroud*: CSE-PT0123			
SC743 Series			SC743T-645 (SAS/SATA) SC743TQ-865 (SAS/SATA) • 8 hot-swap/internal drive bays • Low-noise PWM cooling fan • 645W/865W power supply • Active heatsink*: SNK-P0024AP4		
SC808 Series				SC808T-980 (SATA) • 1U Twin™ Chassis • 4x 3.5"/8x 2.5" hot-swap drive bays • 980W/780W High Efficiency power w/ FC • Passive heatsink*: SNK-P0022+ • Air shroud*: MCP-310-80802-0B • Riser Card*: RSC-R1U-E16R	SC808T-780 (SATA) • 1U Twin™ Chassis • 4x 3.5"/8x 2.5" hot-swap drive bays • 980W/780W High Efficiency power w/ FC • Passive heatsink*: SNK-P0022+ • Air shroud*: MCP-310-80802-0B, MCP-310-80903-0B • Riser Card*: RSC-R1U-E16R
SC809 Series				SC809T-980 (SATA) • 1U Twin™ Chassis • 4x 3.5"/8x 2.5" hot-swap drive bays • 980W/780W High Efficiency power w/ FC • Passive heatsink*: SNK-P0022+ • Air shroud*: MCP-310-80802-0B • Riser Card*: RSC-R1U-E16R	SC809T-780 (SATA) • 1U Twin™ Chassis • 4x 3.5"/8x 2.5" hot-swap drive bays • 980W/780W High Efficiency power w/ FC • Passive heatsink*: SNK-P0022+ • Air shroud*: MCP-310-80802-0B, MCP-310-80903-0B • Riser Card*: RSC-R1U-E16R

* Sold separately



Model	H8DMR-82/H8DMR-i2	H8SMi-2/H8SMA-2	H8SSL-i2	H8DMU+	H8SMU
Processor	Six-Core AMD® Opteron™ 2000 Series Processors	Quad-Core AMD® Opteron™ 1000 Series Processors	Quad-Core AMD® Opteron™ 1000 Series Processors	Six-Core AMD® Opteron™ 2000 Series Processors	Quad-Core AMD® Opteron™ 1000 Series Processors
Chipset	nVidia MCP55-Pro NEC 720400 PCI-X Bridge	nVidia MCP55-Pro	ServerWorks HT1000	nVidia MCP55-Pro	nVidia MCP55-Pro
Form Factor	EATX 12" x 13.05"	ATX 12" x 9.6"	ATX 12" x 8"	EATX 12.175" x 13.05"	Proprietary 7.89" x 13.05"
Optimized Chassis	H8DMR-82: 1U: SC815S+-560 SC815S-R650 H8DMR-i2: 1U: SC815TQ+-560 SC815TQ-R650 SC812L-520	H8SMi-2: 1U: SC512F-260 SC811T-300 H8SMA-2: Mid-Tower: SC733TQ/T/i-450/645 SC733T-465	1U: SC512F-260 SC811T-300	1U: SC113TQ-R650U** SC113TQ-560U** SC815TQ-R650U** SC815TQ-560U** SC812L-520U** 2U: SC213A-R900U** SC216A-R900U** SC825TQ-R700U** SC825MTQ-R700U**	Mini-1U: SC515-280U** 1U: SC111TQ-360U** SC111T-560U** SC815TQ-R450U** SC812L-520U** SC812L-280U**
Memory Capacity & Slots	64 GB ECC Registered DDR2 800/667/533 SDRAM in 8 DIMMs	8 GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMMs	8 GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMMs	128 GB ECC Registered DDR2 800/667/533 SDRAM in 16 DIMMs*	8 GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMMs
Expansion Slots	1 Universal PCI-X 133 MHz or 1 PCI-Express x8 1 Universal PCI-X 100 MHz or 1 PCI-Express x8 SIM1U-3B slot	1 PCI-Express x16 1 PCI-Express x8 (using x16 slot) 1 PCI-Express x4 (using x8 slot) 3 32-bit PCI SIMLP slot	1 64-bit PCI-X 133MHz 2 32-bit PCI 1U/LP IPMI slot	1U Left Slot: 1 PCI-Express x8 and UIO 2U Left Slot: 3 PCI-Express x8 and UIO 2U Right Slot: 1/1 PCI-Express x8/x4 SIMSO socket	1U Left Slot: 1 PCI-Express x8 and UIO 1U Right Slot: 1 PCI-Express x8 SIMSO socket
Onboard SAS/SCSI/SATA/RAID	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DMR-82 only) nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	ServerWorks HT1000 for 4 SATA ports	nVidia MCP55-Pro for 6 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD	nVidia MCP55-Pro for 4 SATA2 ports, RAID 0, 1, 0+1, 5, JBOD
Zero Channel RAID Support	AOC-LPZCR1 or AOC-LPZCR2 (H8DMR-82 only)	N/A	N/A	N/A	N/A
Onboard LAN	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet	Dual LAN with Broadcom 5704 Gigabit Ethernet	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet	Dual LAN with nVidia MCP55-Pro Gigabit Ethernet
Onboard VGA	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller (H8SMi-2 only)	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller
Built-in EIDE/USB Ports	Single ATA133/100 Up to 4 USB 2.0 ports	Single ATA133/100 Up to 8 USB 2.0 ports (H8SMA-2 only)	Single ATA100 Up to 4 USB 2.0 ports	Single ATA133/100 Up to 6 USB 2.0 ports	Single ATA133/100 Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 1 ECP/EPP parallel port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.
Manageability	SIM1U-3B(+) (IPMI 2.0) with KVM and virtual media option, Watch Dog, SuperDoctor III	SIMLP(+) (IPMI 2.0) with KVM (H8SMi-2 only) and virtual media option, Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III	SIMSO(+) (IPMI 2.0) with KVM and virtual media option, Watch Dog, SuperDoctor III	SIMSO(+) (IPMI 2.0) with KVM and virtual media option, Watch Dog, SuperDoctor III
PC Health Monitoring	Monitors CPU core voltages, CPU 4-phase-switching voltage regulator, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 5-fan status, supports system management utility, mem VTT, MCP55 Vcore, chassis intrusion header	Monitors CPU core voltages, CPU 4-phase-switching voltage regulator, 3.3V, +5V, +12V, 5V standby, and total of 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, +5V, +12V, 3.3V, 5V standby, VBAT, and total of 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, CPU 5-phase-switching voltage regulator, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan status, supports system management utility, mem VTT, MCP55 Vcore, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, 5V standby, VBAT, and total of 5-fan status, supports system management utility, chassis intrusion header
Thermal Control	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss & S3 STR support (H8SMA-2 only)	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss
BIOS	AMI 8 Mb Flash ROM	AMI 4 Mb Flash ROM	AMI 4 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 4 Mb Flash ROM

*Fully populated DDR2 800/667 memory will be downgraded to DDR2 533

** Please refer to page 8 for extra component are needed.

OPTIMIZED CHASSIS HIGHLIGHTS



SUPER® SC113 Series

- 8 hot-swap 2.5" drive bays
- High density slim 1U rackmount
- 560W/700W power supply with I²C mgt.
- 650W redundant power supply available
- High Efficiency Power



SUPER® SC815 Series

- 4 hot-swap drive bays
- High density slim 1U rackmount
- 560W power supply with I²C mgt.
- 650W redundant power supply available
- High Efficiency Power



SUPER® SC825U Series

- 8 hot-swap drive bays
- Optional butterfly riser card
- Up to 6 expansion cards with UIO
- Redundant 700W power supply with I²C mgt.
- High Efficiency Power



SUPER® SC812L Series

- 3 internal drive bays
- Cost-effective Design
- High density slim 1U rackmount
- 520W high-efficiency power supply
- 280W high-efficiency power supply



SUPER® SC733 Series

- 4 hot-swap SATA drive bays (T series only)
- 2 5.25" expansion bays
- 465W/645W low noise power supply
- Low noise PWM cooling fans
- 16.8" x 7" x 20.9"/Mid Tower



SUPER® SC515-280UB

- High efficiency & cost effective
- 1x 3.5" or 2x 2.5" internal drive bays
- Front I/O ports with UIO expansion
- 280W High-efficiency power supply
- 18" depth Mini-1U

Key Features and Accessories

Chassis	MB	H8DMR-82/ H8DMR-i2	H8SMi-2/ H8SMA-2	H8SSL-i2	H8DMU+	H8SMU
SC815TQ Series		SC815S(+)-560/R650 (SCSI) SC815TQ (+)-560/R650 (SATA) . 4 hot-swap drive bays . 560W power supply . Redundant 650W with I ² C . 1U Passive heatsink*: SNK-P0022 . 1U Riser cards*: CSE-RR1U-X(LP), CSE-RR1U-EL(P)			SC815TQ-R650U . 4 hot-swap drive bays . 650W Redundant with I ² C mgt. . 1U Passive heatsink*: SNK-P0022 . 1U Riser cards*: RSC-R1UU-UE8 . Air shroud*: MCP-310-0026-01	SC815TQ-R650U . 4 hot-swap drive bays . 650W Redundant with I ² C mgt. . 1U Passive heatsink*: SNK-P0026 . 1U Riser cards*: RSC-R1UU-UE8, RSC-R1UU-E8R+ . Air shroud*: MCP-310-0033-01
SC812L Series		SC812L-520 . 3 internal drive bays . 520W high-efficiency power . 1U Passive heatsink*: SNK-P0022 . 1U Riser cards*: CSE-RR1U-X, CSE-RR1U-XLP, CSE-RR1U-E, CSE-RR1U-ELP			SC812L-520U . 3 internal drive bays . 520W high-efficiency power . 1U Passive heatsink*: SNK-P0022 . 1U Riser cards*: RSC-R1UU-2E8 . Air Shroud*: MCP-310-81202-0B	SC812L-280U/520U . 3 internal drive bays . 280/520W high-efficiency power . 1U Passive heatsink*: SNK-P0026 . 1U Riser cards*: RSC-R1UU-UE8 (left slot), RSC-R1UU-E8R+ (right slot) . Air Shroud*: MCP-310-81202-0B
SC113 Series					SC113TQ-R650UB (SAS/SATA) . 8 2.5" hot-swap drive bays . Redundant 650W with I ² C mgt. . 1U Passive heatsink*: SNK-P0022 . 1U Riser card*: RSC-R1UU-UE8 . Air shroud*: MCP-310-00026-01	SC113TQ-R650UB (SAS/SATA) . 8 2.5" hot-swap drive bays . Redundant 650W with I ² C mgt. . 1U Passive heatsink*: SNK-P0026 . 1U Riser card*: RSC-R1UU-UE8, RSC-R1UU-E8R+ . Air shroud*: MCP-310-00033-01
SC213 Series					SC213A-R900UB (SAS/SATA) . 16 2.5" hot-swap drive bays . Redundant 900W with I ² C mgt. . 2U Passive heatsink*: SNK-P0023P . 2U Riser cards*: RSC-R2UU-U3E8 (Left slot), RSC-R2UU-UE8R (Right slot) . Air shroud*: MCP-310-00025-01	
SC216 Series					SC216A-R900UB (SAS/SATA) . 24 2.5" hot-swap drive bays . Redundant 900W with I ² C mgt. . 2U Passive heatsink*: SNK-P0023P . 2U Riser cards*: RSC-R2UU-U3E8 (Left slot), RSC-R2UU-UE8R (Right slot) . Air shroud*: MCP-310-00025-01	
SC825U Series					SC825TQ-R700U . 8 hot-swap drive bays . 700W Redundant with I ² C mgt. . 2U Passive heatsink*: SNK-P0023P . 2U Riser card*: RSC-R2UU-U3E8 (Left slot), RSC-R2UU-UE8R (Right slot) . Air shroud*: MCP-310-0025-01 . 2U passive heatsink*: SNK-P0023P	
SC733 Series			SC733TQ/SC733T-645 (SATA) SC733T-465 (SATA) SC733i-465/645 (Internal) . Low Noise and Cost-Effective . 4 hot-swap SATA drive bays . Low noise 645W/450W	SC733TQ/SC733T-645 (SATA) SC733T-450 (SATA) SC733i-450/645 (Internal) . Low Noise and Cost-Effective . 4 hot-swap SATA drive bays . Low noise 645W/450W		
SC515 Series						SC515-280UB . Cost-Effective Mini 1U . 280W high-efficiency power . 1U Passive heatsink*: SNK-P0026 . 1U Riser cards*: RSC-R1UU-UE8 . Air Shroud*: MCP-310-51501-0B

* Sold separately



Model	H8DA8/H8DAE	H8DC8/H8DCi	H8DCE	H8DCE-HTe	H8DSL-HTi
Processor	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors
Chipset	AMD 8131 PCI-X Tunnel AMD 8111 I/O Hub	nVidia nForce Pro 2200 nVidia nForce Pro 2050 AMD 8132 PCI-X Tunnel	nVidia nForce Pro 2200 nVidia nForce Pro 2050	nVidia nForce Pro 2200 nVidia nForce Pro 2050	ServerWorks HT1000
Form Factor	EATX 12" x 13.05"	EATX 12" x 13.05"	EATX 12" x 13.05"	EATX 12" x 13.05"	Proprietary 9.6" x 13.05"
Optimized Chassis	H8DA8: 2U: SC823S-R500LP/550LP 3U: SC933S1-R760/SC933S2-R760 SC833S-R760/550 4U: SC743S1-R760/650 H8DAE: 2U: SC823i-550LP 4U: SC743i-R760/650	H8DC8: 4U: SC743S1-645 H8DCi: 4U: SC743i-645 Mid-Tower: SC733i-645	4U: SC743T-645 SC743i-645 Mid-Tower: SC733T-645	1U: SC813T-500C-HTe 4U: SC743T-645 Mid-Tower: SC733T-645	1U: SC813T-500C SC812L-420C
Memory Capacity & Slots	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs
Expansion Slots	2 64-bit PCI-X 133/100 MHz 2 64-bit PCI-X 66 MHz 2 32-bit PCI LP IPMI slot	2 PCI-Express x16 1 PCI-Express x4 (using x8 slot) 2 64-bit PCI-X 133/100 MHz 1 64-bit PCI-X 100 MHz 1 32-bit PCI	2 PCI-Express x16 2 PCI-Express x4 (using x8 slot) 3 32-bit PCI	1 HyperTransport connector 2 PCI-Express x16 1 PCI-Express x4 (using x8 slot) 3 32-bit PCI LP IPMI slot	1 HyperTransport connector 1 64-bit PCI-X 133 MHz 1U IPMI slot
Onboard SAS/SCSI/SATA/RAID	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DA8 only)	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DC8 only) nVidia nForce Pro 2200 SATA (3Gbps) controller for 4 SATA ports	nVidia nForce Pro 2200 & 2050 SATA (3Gbps) controller for 8 SATA ports nVidia RAID 2.0	nVidia nForce Pro 2200 & 2050 SATA (3Gbps) controller for 8 SATA ports nVidia RAID 2.0	ServerWorks HT1000 for 4 SATA ports
Zero Channel RAID Support	AOC-LPZCR1 or AOC-LPZCR2 (H8DA8 only)	AOC-LPZCR1 or AOC-LPZCR2 (H8DC8 only)	N/A	N/A	N/A
Onboard LAN	Dual LAN with Broadcom 5704 Gigabit Ethernet	Dual LAN with nVidia nForce Pro 2200 & 2050 Gigabit Ethernet	Dual LAN with nVidia nForce Pro 2200 & 2050 Gigabit Ethernet	Dual LAN with two Broadcom 5721 Gigabit Ethernet	Dual LAN with Broadcom 5704 Gigabit Ethernet
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	N/A	N/A	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/USB Ports	Dual ATA133/100 Up to 5 USB 1.1 ports	Dual ATA133/100 Up to 8 USB 2.0 ports	Dual ATA133/100 Up to 8 USB 2.0 ports	Dual ATA133/100 Up to 6 USB 2.0 ports	Single ATA100 Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 1 ECP/EPP parallel port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn. AC'97 audio CODEC high quality 6-channel sound Front-side audio header	1 floppy port 1 ECP/EPP parallel port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn. AC'97 audio CODEC high quality 6-channel sound Front-side audio header	1 floppy port 1 ECP/EPP parallel port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn. AC'97 audio CODEC high quality 6-channel sound Front-side audio header	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.
Manageability	IPMI 2.0, Watch Dog, SuperDoctor III	Watch Dog, SuperDoctor III	Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III
PC Health Monitoring	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 3.3V standby, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, DDR termination 1.25V, chipset voltage 1.8V, and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 3.3V standby, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, nVidia nForce Pro 2200 & 2050 voltage 1.5V, and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 3.3V standby, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, nVidia nForce Pro 2200 & 2050 voltage 1.5V, and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 3.3V standby, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, nVidia nForce Pro 2200 & 2050 voltage 1.5V, and total of 8-fan status, plus 2 chipset fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, +5V, +12V, -12V, 5V standby, 2.5V standby, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, DDR termination 1.25V, and total of 5-fan status, supports system management utility, chassis intrusion header
Thermal Control	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss & S3 STR support	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss & S3 STR support	ACPI power management, internal/external modem ring-on, WOL, control of power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss
BIOS	AMI 4 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 4 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM



SUPER® SC743S1-R760/650

- 8 hot-swap SCA drive bays
- 90-degree rotatable drive bay module
- Triple 760W redundant power/650W
- 4U x 25.5"/Tower



SUPER® SC743S1-645

- 8 hot-swap SCA drive bays
- 90-degree rotatable drive bay module
- 645W low noise power supply
- Hot-swap redundant PWM cooling fans
- 4U x 25.5"/Tower



SUPER® SC733T-465/645

- 4 hot-swap SATA drive bays
- 2 5.25" expansion bays
- 465/645W low noise power supply
- Low noise PWM cooling fans
- 16.8" x 7" x 20.9"/Mid Tower



SUPER® SC823S-R500LP

- 6 hot-swap SCA drive bays
- Redundant 500W power with IFC mgt.
- 4 high-performance hot-swap fans
- 7 low-profile PCI-X/PCI-E expansion slots
- 2U x 25.5"



SUPER® SC833S-R760

- 8 hot-swap SCA drive bays (SAF-TE compliant)
- Triple redundant 760W power with IFC mgt.
- 6 hot-swap fans for 100% cooling redundancy
- Air-shroud for optimal cooling
- 3U x 25.5"



SUPER® SC733i-465/645

- 4 hot-swap SATA drive bays
- 2 5.25" expansion bays
- 465/645W low noise power supply
- Low noise PWM cooling fans
- 16.8" x 7" x 20.9"/Mid Tower

Key Features and Accessories

Chassis	MB	H8DA8/E	H8DC8/i	H8DCE-(HTE)	Fan Setting
SC743 Series		SC743S1-R760/650 (SCSI) SC743i-R760/650 (IDE) 100% Cooling and Power Redundancy • 4U/Tower convertible • 8 hot-swap SCA/8 fixed drive bays • Triple 760W/650W redundant cooling • Passive heatsink*: SNK-P0023P or SNK-P0013	SC743S1-645 (SCSI) SC743i-645 (IDE) Low Noise Workstation • 4U/Tower convertible • 8 hot-swap SCA/8 fixed drive bays • Low noise 645W • Active heatsink*: SNK-P0024AP4	SC743T-645 (SATA) SC743i-645 (IDE) Low Noise Workstation • 4U/Tower convertible • 8 hot-swap SATA/8 fixed drive bays • Low noise 645W • Active heatsink*: SNK-P0024AP4	SC743S/i-R760/650: 3-pin Server SC743S/T/i-645: 4-pin Workstation
SC833 Series		SC833S-R760/550 (SCSI) 100% Cooling and Power Redundancy • 8 hot-swap SCA drive bays • Triple 760W/550W power supply • Passive heatsink*: SNK-P0023P or SNK-P0013			3-pin Server
SC823 Series		SC823S-R500LP/550LP (SCSI) SC823i-550LP (IDE) High Performance and Power Redundancy • 6 hot-swap SCA/6 fixed drive bays • Redundant 500W/550W • 7 low-profile expansion slots • Passive heatsink*: SNK-P0023P or SNK-P0013 • Air shroud*: CSE-PT83			3-pin Server
SC733 Series			SC733i-465/645 (IDE) Low Noise and Cost Effective • 4 fixed drive bays • Low noise 465/645W • Active heatsink*: SNK-P0024AP4		4-pin Workstation

* Sold separately



Model	H8DAR-8/H8DAR-i	H8DAR-T/H8DAR-E	H8DSR-8/H8DSR-i	H8DCR-3/H8DCR-i	H8SSL-i/H8SSL-R10
Processor	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors	Dual-Core AMD Opteron™ 100 Series Processors
Chipset	AMD 8131 PCI-X Tunnel AMD 8111 I/O Hub	AMD 8131 PCI-X Tunnel AMD 8111 I/O Hub	ServerWorks HT2000 ServerWorks HT1000	nVidia nForce Pro 2200 AMD 8132 PCI-X Tunnel	ServerWorks HT1000
Form Factor	EATX 12" x 13.05"	EATX 12" x 13.05"	EATX 12" x 13.05"	EATX 12" x 13.05"	ATX 12" x 8"
Optimized Chassis	H8DAR-8: IU: SC813S-500C SC812S-420C/520C H8DAR-i: IU: SC812i-420C SC812L-420C/520C	H8DAR-T: IU: SC813T+-500 H8DAR-E: IU: SC813i+-500	H8DSR-8: IU: SC813S+-500 H8DSR-i: IU: SC813TQ+-500 SC813T+-500 SC813i+-500	H8DCR-3: IU: SC813TQ+-500 H8DCR-i: IU: SC813TQ+-500 SC813T+-500 SC813i+-500	IU: SC512L-260 SC512C-260 SC811FT-260 (OEM only) Mid-tower: SC733T-450 SC733i-450
Memory Capacity & Slots	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	16/32/32 GB ECC Registered DDR 400/333/266 SDRAM in 8 DIMMs	4 GB ECC/non-ECC Unbuffered DDR 400/333 SDRAM in 4 DIMMs
Expansion Slots	1 64-bit PCI-X 100 MHz 1U IPMI slot	2 64-bit PCI-X 133/100 MHz 1U IPMI slot	1 Universal PCI-X 133 MHz or 1 PCI-Express x8 (low-profile) 1 Universal PCI-X 100 MHz or 1 PCI-Express x8 1U IPMI slot	1 Universal PCI-X 133 MHz or 1 PCI-Express x8 1 Universal PCI-X 100 MHz or 1 PCI-Express x8 (low-profile) 1U IPMI slot	1 64-bit PCI-X 133 MHz 2 32-bit PCI 1U/LP IPMI slot
Onboard SAS/SCSI/SATA/RAID	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DAR-8 only)	Marvell 88SX6041 controller for 4 SATA ports (H8DAR-T only)	Adaptec 7902W dual-channel Ultra320 SCSI with host RAID (H8DSR-8 only) ServerWorks HT1000 for 4 SATA ports	Adaptec 9410W for 8 SAS/SATA (4 int. & 4 ext); RAID 0, 1, 10 (H8DCR-3 only) nVidia nForce Pro 2200 controller for 4 SATA ports	ServerWorks HT1000 for 4 SATA ports RAID 0, 1, 10 (H8SSL-R10 only)
Zero Channel RAID Support	AOC-SOZCR1 (H8DAR-8 only)	AOC-LPZCR1 or AOC-LPZCR2 (H8DAR-T only)	AOC-LPZCR1 or AOC-LPZCR2 (H8DSR-8 only)	AOC-LPZCR2 (H8DCR-3 only)	N/A
Onboard LAN	Dual LAN with Broadcom 5704 Gigabit Ethernet	Dual LAN with Broadcom 5704 Gigabit Ethernet	Dual LAN with ServerWorks HT2000 Gigabit Ethernet	Dual LAN with two Broadcom 5721 Gigabit Ethernet	Dual LAN with Broadcom 5704 Gigabit Ethernet
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/USB Ports	Dual ATA133/100 Up to 5 USB 1.1 ports	Dual ATA133/100 Up to 5 USB 1.1 ports	Single ATA100 Up to 4 USB 2.0 ports	Dual ATA133/100 Up to 4 USB 2.0 ports	Single ATA100 Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.	1 floppy port 2 fast UART 16550 serial ports PS/2 mouse & keyboard conn.
Manageability	IPMI 2.0, Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III	IPMI 2.0, Watch Dog, SuperDoctor III
PC Health Monitoring	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, 3.3V standby, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, DDR termination 1.25V, chipset voltage 1.8V, and total of 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 3.3V, +5V, +12V, -12V, battery voltage, total of 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, +5V, +12V, -12V, 5V standby, 2.5V standby, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, DDR termination 1.25V, and total of 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, 1.5V, 2.5V, 3.3V, +5V, +12V, -12V, 3.3V standby, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, and total of 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU core voltages, +5V, +12V, -12V, 5V standby, 2.5V standby, VBAT, HyperTransport™ technology voltage 1.2V, memory voltage 2.5V, DDR termination 1.25V, and total of 5-fan status, supports system management utility, chassis intrusion header
Thermal Control	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication	Fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss
BIOS	AMI 4 Mb Flash ROM	AMI 4 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 4 Mb Flash ROM

OPTIMIZED CHASSIS HIGHLIGHTS



SUPER[®] SC813S-500C

- 4 hot-swap SCA drive bays
- 500W cold-swap power with FC mgt.
- 1 PCI-X slot
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"



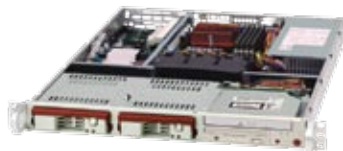
SUPER[®] SC813T+-500

- 4 hot-swap SATA drive bays
- 500W cold-swap power with FC mgt.
- 2 PCI-X slots
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"



SUPER[®] SC812S-420C

- 3 hot-swap SCA drive bays
- Powerful 420W power supply
- 1 PCI-X slot
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"



SUPER[®] SC811FT-260 (OEM only)

- 2 hot-swap SATA drive bays
- 260W power supply for single processor
- 1 PCI-X slot
- 1U x 22.6"



SUPER[®] SC512F-260

- Mini 1U for shallow racks
- 260W power supply for single processor
- 1 PCI-X slot
- 1U x 14"

Key Features and Accessories

Chassis	MB	H8DAR-8/i	H8DAR-T/E	H8DSR-8/i, H8DCR-3	H8SSL-i/R10	Fan Setting
SC813 Series		SC813S-520L (SCSI) High Performance and Storage • 4 hot-swap SCA • 500W with FC mgt. • 1U Passive heatsink*: SNK-P0012 • 1U Riser cards*: CSE-RR1U-X • Air shroud*: CSE-PT82	SC813T+-500 (SATA) SC813i+-500 (IDE) High Performance and Storage • 4 hot-swap SATA/4 fixed • 500W with FC mgt. • 1U Passive heatsink*: SNK-P0012 • 1U Riser cards*: CSE-RR1U-X CSE-RR1U-XLP • Air shroud*: CSE-PT70	SC813S+-500 (SCSI) SC813i+-500 (IDE) High Performance and Storage • 4 hot-swap SCA/4 fixed • 500W with FC mgt. • 1U Passive heatsink*: SNK-P0012 • 1U Riser cards*: CSE-RR1U-X CSE-RR1U-XLP • Air shroud*: CSE-PT70		SC743S/i-R760/650: 3-pin Server SC743S/T/i-645: 4-pin Workstation
SC812 Series		SC812S-420C (SCSI) SC812i-420C (IDE) SC812L-520C (IDE internal) Versatile and Cost Effective • 3 hot-swap SCA/3 fixed/3 internal drive bays • 420W power supply • 1U Passive heatsink*: SNK-P0012 • 1U Riser cards*: CSE-RR1U-X • Air shroud*: CSE-PT82				3-pin Server
SC811 Series					SC811FT-260 (OEM only) Cost Effective • 2 hot-swap SATA • 260W power supply • 1U Passive heatsink*: SNK-P0012 • 1U Riser cards*: CSE-RR1U-X • Air shroud*: CSE-PT0113	3-pin Server
SC512 Series					SC512F-260 Mini 1U and Cost Effective • 1 internal 3.5" SATA • 260W power supply • 1U Passive heatsink*: SNK-P0012 • 1U Riser cards*: CSE-RR1U-X • Rail kits*: CSE-PT8 • Air shroud*: CSE-PT0112	4-pin Workstation

* Sold separately



1U Twin™



1U Twin™



UIO Server



	A+ Server 1021TM-T+B/ A+ Server 1021TM-INF+B	A+ Server 1121TM-IBXF	A+ Server 1021M-UR+(V/B)
PROCESSOR SUPPORT	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 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	High-end enterprise server, SQL server, high performance computer cluster (HPCC)
OUTSTANDING FEATURES	Two nodes in 1U Up to 24 Cores in 1U Double density and computing power Independent power control Independent cooling control Higher power utilization increases power supply efficiency reduce power cables and power strips Save maintenance/management costs	Two nodes in 1U Up to 24 Cores in 1U Double density and computing power Independent power control Independent cooling control Higher power utilization increases power supply efficiency reduce power cables and power strips Save maintenance/management costs	4 variable hard drive bays (UIO) Universal I/O slot and PCI-Express 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMSO (IPMI 2.0) management 650W high-efficiency redundant power supply
SERVERBOARD/CHIPSET	H8DMT+(-INF+) / HyperTransport™ technology NVIDIA MCP55V-Pro	H8DMT-IBXF / HyperTransport™ technology NVIDIA MCP55-Pro	H8DMU+ / HyperTransport™ technology NVIDIA MCP55-Pro
SYSTEM MEMORY (Max.)	Twin set of 128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets**	Twin set of 64 GB ECC Reg. DDR2 800/667/533 SDRAM in 8 DIMM sockets	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets**
EXPANSION SLOTS	Twin set of PCI-Express x16 via riser card (low profile) Twin set of SIMSO IPMI socket	Twin set of PCI-Express x16 via riser card (low profile)	1 Universal I/O (UIO) slot 1 PCI-Express x8 SIMSO IPMI socket
ONBOARD SAS/SCSI/SATA/IDE/RAID	Twin set of NVIDIA MCP55V-Pro for 2 SATA	Twin set of NVIDIA MCP55-Pro for 4 SATA	UIO SAS 4 port controller* NVIDIA MCP55-Pro for 4 SATA
ZERO CHANNEL RAID SUPPORT	N/A	N/A	N/A
CONNECTIVITY/VGA/AUDIO	Twin set of dual LAN with NVIDIA MCP55-V Pro Gigabit Ethernet controller Twin set of Mellanox InfiniHost III 20Gbps Infiniband (1021TM-INF+ only) Twin set of XGI Z9S 32MB PCI graphics controller	Twin set of dual LAN with Intel 82575 Gigabit Ethernet controller Twin set of Mellanox Connect-X 20Gbps Infiniband Twin set of Winbond WPCM450 BMC 128MB graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller
MANAGEMENT	SIMSO(+), (IPMI 2.0), SuperDoctor III, Watch Dog	IPMI2.0, SuperDoctor III, Watch Dog	SIMSO (IPMI 2.0), SuperDoctor III, Watch Dog
INTERNAL STORAGE (Max)	4 TB	2.4 TB	SAS: 1.2 TB (with UIO) SATA: 4 TB
DRIVE BAYS	Twin set of 2 x 3.5" hot-swap SATA drive bays with SES2 support	Twin set of 4 x 2.5" hot-swap SATA drive bays with SES2 support	4 x 3.5" hot-swap SAS or SATA drive bays with SES2 support
PERIPHERAL BAYS	N/A	N/A	1 slim DVD-ROM drive optional 1 slim floppy drive
POWER SUPPLY	980W high-efficiency power supply with iFC built-in	780W high-efficiency power supply with iFC built-in	650W high-efficiency redundant power supply
COOLING SYSTEM	Twin set of 3 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	Twin set of 3 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	4 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
FORM FACTOR	1U Rackmount 437 x 43 x 704mm (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 650mm (17.2" x 1.7" x 25.6")

* Supermicro UIO card must be installed

**Fully populated DDR2 800/667 will be downgraded to DDR2 533



A+ Server 1021M-T2+(V/B)	A+ Server 1021M-T2R(V/B)	A+ Server 1021M-82(V/B)/ A+ Server 1021M-T2(V/B)	A+ Server 1011M-UR(V/B)
Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Quad-Core AMD Opteron™ 1000 Series Processors
High-end enterprise server, SQL server, high performance computer cluster (HPCC)	High-end enterprise server, SQL server, high performance computer cluster (HPCC)	High-end enterprise server, SQL server, high performance computer cluster (HPCC)	High-end enterprise server, SQL server, high performance computer cluster (HPCC)
4 SATA drive bays 1 PCI-Express x8 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLC/SIMIU+ (IPMI 2.0) management 560W high-efficiency cold-swap power supply	SATA drive bays Universal PCI-X or PCI-Express 64 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMIU-3B(+)(IPMI 2.0) management 650W high-efficiency redundant power supply	4 SCA/SATA drive bays Universal PCI-X or PCI-Express 64 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports ZCR RAID support (1021M-82 only) SIMIU-3B(+)(IPMI 2.0) management 560W high-efficiency power supply	4 variable hard drive bays (U10) Universal I/O (U10) and PCI-Express 8 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMSO(+)(IPMI 2.0) management 450W high-efficiency redundant power supply
H8DME-2 / HyperTransport™ technology NVIDIA MCP55-Pro NEC 720400 PCI-X Bridge	H8DMR-i2 / HyperTransport™ technology NVIDIA MCP55-Pro NEC 720400 PCI-X Bridge	H8DMR-82/i2 / HyperTransport™ technology NVIDIA MCP55-Pro NEC 720400 PCI-X Bridge	H8SMU / HyperTransport™ technology NVIDIA MCP55-Pro
128 GB ECC Reg. DDR2 800/667/533/400 SDRAM in 16 DIMM sockets**	64 GB ECC Reg. DDR2 800/667/533 SDRAM in 8 DIMM sockets	64 GB ECC Reg. DDR2 800/667/533 SDRAM in 8 DIMM sockets	8 GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMM sockets
1 PCI-Express x8 SIMLC IPMI slot	1 Universal PCI-X 133 MHz or 1 PCI-Express x8 (full height) 1 Universal PCI-X 100 MHz or 1 PCI-Express x8 (low-profile) SIMIU-3B IPMI slot	1 Universal PCI-X 133 MHz or 1 PCI-Express x8 (full height) 1 Universal PCI-X 100 MHz or 1 PCI-Express x8 (low-profile) SIMIU-3B IPMI slot	1 Universal I/O (U10) slot 2 PCI-Express x8 SIMSO IPMI socket
NVIDIA MCP55-Pro for 4 SATA	NVIDIA MCP55-Pro for 4 SATA	Adaptec® 7902 2-channel Ultra320 SCSI with host RAID (1021M-82 only) NVIDIA MCP55-Pro for 4 SATA	U10 SAS 4 port controller* NVIDIA MCP55-Pro for 4 SATA
N/A	N/A	AOC-LPZCR1 or AOC-LPZCR2 (1021M-82 only)	N/A
Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller
SIMLC/SIMIU+ (IPMI 2.0), SuperDoctor III, Watch Dog	SIMIU-3B (+)(IPMI 2.0), SuperDoctor III, Watch Dog	SIMIU-3B(+)(IPMI 2.0), SuperDoctor III, Watch Dog	SIMSO(+)(IPMI 2.0), SuperDoctor III, Watch Dog
4 TB	4 TB	1.2/4 TB	SAS: 1.2 TB (with U10) SATA: 4 TB
4 x 3.5" hot-swap SATA drive bays	4 x 3.5" hot-swap SATA drive bays	4 x 3.5" hot-swap Ultra320/160 SCA drive bays with SAF-TE (1021M-82 only) 4 x 3.5" hot-swap SATA drive bays (1021M-T2 only)	4 x 3.5" hot-swap SAS/SATA drive bays with SES2 support
optional slim DVD-ROM drive optional slim floppy drive	1 slim DVD-ROM drive optional 1 slim floppy drive	1 slim DVD-ROM drive optional 1 slim floppy drive	1 slim DVD-ROM drive optional 1 slim floppy drive
560W high-efficiency power supply with iFC built-in	650W high-efficiency redundant power supply	560W high-efficiency power supply with iFC built-in	450W high-efficiency redundant power supply
4 x 4cm heavy duty counter-rotating fans with air-shroud & optimal fan speed control	4 x 4cm heavy duty counter-rotating fans with air-shroud & optimal fan speed control	4 x 4cm heavy duty counter-rotating fans with air-shroud & optimal fan speed control	3 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")

* Supermicro U10 card must be installed

**Fully populated DDR2 800/667 will be downgraded to DDR2 533



UIO Server



	A+ Server 1011M-Ni(B)	A+ Server 1011M-T2(B)	A+ Server 1011S-MR2(B)
PROCESSOR SUPPORT	Quad-Core AMD Opteron™ 1000 Series Processors	Quad-Core AMD Opteron™ 1000 Series Processors	Quad-Core AMD Opteron™ 1000 Series Processors
KEY APPLICATIONS	High-end enterprise server, SQL server, high performance computer cluster (HPCC)	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	3 fixed SATA/IDE drives PCI-Express 8 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMSO(+)(IPMI 2.0) management 280W high efficiency power supply	2 SATA drive bays 1 PCI-Express x16 8 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMIU(+)(IPMI 2.0) slot	Optimized for shallow racks 1 PCI-X 133 MHz slot 8 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports 1UIPMI 2.0 slot
SERVERBOARD/CHIPSET	H8SMU / HyperTransport™ technology NVIDIA MCP55-Pro	H8SMi-2 / HyperTransport™ technology NVIDIA MCP55-Pro	H8SSL-i2 / HyperTransport™ technology ServerWorks HT1000
SYSTEM MEMORY (Max.)	8 GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMM sockets	8 GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMM sockets	8 GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMM sockets
EXPANSION SLOTS	3 PCI-Express x8 SIMSO IPMI socket	1 PCI-Express x16 SIMIU IPMI slot	1 64-bit PCI-X 133 MHz 1UIPMI slot
ONBOARD SAS/SCSI/SATA/ IDE/RAID	NVIDIA MCP55-Pro for 3 SATA	NVIDIA MCP55-Pro for 2 SATA	ServerWorks HT1000 for 1 SATA
ZERO CHANNEL RAID SUPPORT	N/A	N/A	N/A
CONNECTIVITY/VGA/ AUDIO	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with Broadcom 5704 Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller
MANAGEMENT	SIMSO(+)(IPMI 2.0), SuperDoctor III, Watch Dog	SIMIU(+)(IPMI 2.0), SuperDoctor III, Watch Dog	1UIPMI (IPMI 2.0), SuperDoctor III, Watch Dog
INTERNAL STORAGE (Max)	3 TB	2 GB	1 TB
DRIVE BAYS	3 x 3.5" fixed drive bays	2 x 3.5" hot-swap SATA drive bays	1 x 3.5" internal drive bay
PERIPHERAL BAYS	N/A	1 slim DVD-ROM drive 1 floppy drive	1 slim CD-ROM drive
POWER SUPPLY	280W high-efficiency power supply	260W power supply	260W power supply
COOLING SYSTEM	2 x 10cm heavy duty blowers with air shroud & optimal fan speed control	2 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	2 x 4cm heavy duty counter-rotating fan with air shroud & optimal fan speed control
FORM FACTOR	1U Rackmount 426 x 43 x 650mm (16.8" x 1.7" x 25.6")	1U Rackmount 426 x 43 x 574mm (16.8" x 1.7" x 22.6")	Mini 1U Rackmount 426 x 43 x 356mm (16.8" x 1.7" x 14")

* Supermicro UIO card must be installed
**Fully populated DDR2 800/667 will be downgraded to DDR2 533

2U Twin²_{TM}

NEW! PCI-E 2.0

UIO Server



A+ Server 1020P-8R(B)/ A+ Server 1020P-TR(B)	A+ Server 2021TM-BTRF/ A+ Server 2021TM-BIBXRF	A+ Server 2021A-32R+F/ A+ Server 2021A-T2R+F	A+ Server 2021M-UR+(V/B)
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Dual-Core AMD Opteron™ 200 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors
High-end enterprise server, SQL server, high performance computer cluster (HPCC)	HPC cluster computer nodes, datacenter, data farm, front-end server and other computing intensive applications	Business critical applications, virtualization, front-end server, database applications, primary server for mid-size companies, internet, e-business, server clustering	High-end enterprise server, SQL server, high performance computer cluster (HPCC)
4 SCA/SATA drive bays Universal PCI-X or PCI-Express 16 GB DDR400 SDRAM 2 Gigabit Ethernet ports ZCR RAID support (1020P-8R only) 1UIPMI 2.0 with optional 3rd LAN 700W redundant power supply	Best performance per watt Four hot-swappable nodes in 2U Up to 48 Cores in 2U More than double computing density and efficiency Independent power control Independent cooling control Hot-pluggable high-efficiency redundant power reduce power cables and power strips Save maintenance/management costs	Up to 8 drive bays Low-profile PCI-Express Gen 2.0 slots 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SAS RAID support (2021A-32R+ only) IPMI 2.0, KVM with Virtual Media 720W high-efficiency redundant power supply	8 variable hard drive bays (UIO) Universal I/O slot and PCI-Express 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMSO(+)(IPMI 2.0) management 700W high-efficiency redundant power supply
H8DSP-8/H8DSP-i / HyperTransport™ technology ServerWorks HT2000 ServerWorks HT1000	H8DMT-F/IBXF / HyperTransport™ technology NVIDIA MCP55-Pro	H8DI3+-F/H8DI+-F / HyperTransport™ technology AMD SR5690/SP5100	H8DMU+ / HyperTransport™ technology NVIDIA MCP55-Pro
16/32 GB ECC Reg. DDR 400/333 SDRAM in 8 DIMM sockets	Quad sets of 64 GB ECC Reg. DDR2 800/667/533 SDRAM in 8 DIMM sockets	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets**	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets**
1 Universal PCI-X 133 MHz or 1 PCI-Express x8 (full height) 1 Universal PCI-X 100 MHz or 1 PCI-Express x8 (low-profile) 1UIPMI slot	Quad sets of PCI-Express x16 via riser card (low profile)	2 PCI-Express 2.0 x8 (using x16 slot) 1 PCI-Express 2.0 x4 (using x8 slot) 2 64-bit PCI-X 133/100 MHz (All Low-profile slots)	1 Universal I/O (UIO) slot 3 PCI-Express x8 (full size) 1 PCI-Express x8 (low profile) 1 PCI-Express x4 (in x8 slot, low profile) SIMSO IPMI socket
Adaptec® 7902 2-channel Ultra320 SCSI (1020P-8R only) ServerWorks HT1000 for 4 SATA (1020P-TR only)	Quad sets of NVIDIA MCP55-Pro for 4 SATA	LSI 1068E SAS Controller (2021A-32R+ only) AMD SP5100 for 6 SATA2	UIO SAS 8 port controller* NVIDIA MCP55-Pro for 4 SATA
AOC-LPZCR1 or AOC-LPZCR2 (1020P-8R only)	N/A	AOC-iButton68 (2021A-32R+ only)	N/A
Dual LAN with ServerWorks HT2000 Gigabit Ethernet controller ATI® Rage XL 8MB PCI graphics controller	Quad set of dual LAN w/ Intel 82575 GbE controller Quad set of Mellanox Connect-X 20Gbps Infiniband (BIBXRF only) Quad sets of Winbond WPCM450 BMC 128MB graphics controller	Dual LAN with two Intel 82574L Gigabit Ethernet Matrox G200eW graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller
IPMI 2.0 with optional 3rd LAN port, SuperDoctor III, Watch Dog	IPMI 2.0, SuperDoctor III, Watch Dog	IPMI 2.0, Watch Dog, SuperDoctor III	SIMSO(+)(IPMI 2.0), SuperDoctor III, Watch Dog
1.2/4 TB	12 TB	SAS: 2.4 TB SATA: 6 TB	SAS: 2.4 TB (with UIO) SATA: 6 TB
4 x 3.5" hot-swap Ultra320/160 SCA drive bays with SAF-TE (1020P-8R only) 4 x 3.5" hot-swap SATA drive bays (1020P-TR only)	Quad set of 3 x 3.5" hot-swap SATA drive bays with SES2 support	8 x 3.5" hot-swap SAS or SATA drive bays with SES2 support	8 x 3.5" hot-swap SAS or SATA drive bays with SES2 support
1 slim DVD-ROM drive 1 slim floppy drive	N/A	Optional 1 slim DVD-ROM drive	1 slim DVD-ROM drive
700W redundant power supply with iFC built-in	1200W high-efficiency redundant power supply with PMBus	720W high-efficiency redundant power supply with iFC built-in	700W high-efficiency redundant power supply with iFC built-in
4 x 4cm heavy duty counter-rotating fans with optimal fan speed control	Twin set of 2 x 8cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	3 x 8cm heavy duty fans with air shroud & optimal fan speed control	3 x 8cm heavy duty fans with air shroud & optimal fan speed control
1U Rackmount 437 x 43 x 686mm (17.2" x 1.7" x 27")	2U Rackmount 483 x 89 x 724mm (17.2" x 3.5" x 28.5")	2U Rackmount 437 x 89 x 648mm (17.2" x 3.5" x 25.5")	2U Rackmount 437 x 89 x 648mm (17.2" x 3.5" x 25.5")

* Supermicro UIO Card must be installed
** Fully populated DDR2 800/667 will be downgraded to DDR2 533

GPU Optimized



	A+ Server 2021M-82R+(V/B)/ A+ Server 2021M-T2R+(V/B)	A+ Server 2021M-32R(V/B)	A+ Server 4021GA-62R+F
PROCESSOR SUPPORT	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors
KEY APPLICATIONS	Business critical applications, front-end server, database applications, primary server for mid-size companies, internet, e-business, server clustering	High-end workstation, business critical applications, front-end server, database applications, video server	Ultra-high performance workstation, medical imaging, oil and gas simulation, quantum chemistry, financial simulation, astrophysics
OUTSTANDING FEATURES	Up to 8 drive bays Low-profile PCI-X and PCI-Express 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports ZCR RAID support (2021M-82R+ only) SIMLC/SIM1U+ (IPMI 2.0) management 700W high-efficiency redundant power supply	Up to 8 SAS drive bays Low-profile PCI-X and PCI-Express 64 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLP(+)(IPMI 2.0) management 700W high-efficiency redundant power supply	GPU optimized 4U/tower solution Up to 4 TeraFLOPS of performance per system Up to 4 GPUs installed per system Support up to 7 expansion cards Support PCI-Express 2.0 IPMI 2.0 + KVM w/ dedicated LAN 1400W redundant Gold Level power supply
SERVERBOARD/CHIPSET	H8DM8-2/H8DME-2 / HyperTransport™ technology NVIDIA MCP55-Pro NEC 720400 PCI-X Bridge	H8DM3-2 / HyperTransport™ technology NVIDIA MCP55-Pro AMD 8132 PCI-X Tunnel	H8DA6+-F / HyperTransport™ technology Dual AMD SR5690/SP5100
SYSTEM MEMORY (Max.)	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets**	64 GB ECC Reg. DDR2 800/667/533 SDRAM in 8 DIMM sockets	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets
EXPANSION SLOTS	2 PCI-Express x8 2 64-bit PCI-X 133/100 MHz 2 64-bit PCI-X 100 MHz (all low-profile slots) SIMLC IPMI slot	2 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 2 64-bit PCI-X 133/100 MHz 1 64-bit PCI-X 133 MHz (all low-profile slots) SIMLP IPMI slot	4 PCI-Express 2.0 x16 2 PCI-Express 2.0 x4 (using x8 slots) 1 32-bit PCI
ONBOARD SAS/SCSI/SATA/IDE/RAID	Adaptec® 7902 2-channel Ultra320 SCSI with host RAID (2021M-82R+ only) NVIDIA MCP55-Pro for 6 SATA	LSI 1068E SAS Controller NVIDIA MCP55-Pro for 6 SATA	LSI 2008 SAS2 Controller AMD SP5100 for 6 SATA2
ZERO CHANNEL RAID SUPPORT	AOC-LPZCR1 or AOC-LPZCR2 (2021M-82R+ only)	AOC-iButton68	AOC-IMRRAKEY-2008-LSI
CONNECTIVITY/VGA/AUDIO	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with Intel 82576 Gigabit Ethernet controller Matrox G200eW graphics controller
MANAGEMENT	SIMLC/SIM1U+ (IPMI 2.0), SuperDoctor III, Watch Dog	SIMLP(+)(IPMI 2.0), SuperDoctor III, Watch Dog	IPMI 2.0, Watch Dog, SuperDoctor III
INTERNAL STORAGE (Max)	2.4/6 TB	SAS: 2.4 TB SATA: 6 TB	SAS2: 2.4 TB SATA: 6 TB
DRIVE BAYS	8 x 3.5" hot-swap Ultra320/160 SCA with SAF-TE/SATA drive bays	8 x 3.5" hot-swap SAS drive bays with SES2 support	8 x 3.5" hot-swap SAS2/SATA drive bays
PERIPHERAL BAYS	1 slim DVD-ROM drive	1 slim DVD-ROM drive	N/A
POWER SUPPLY	700W high-efficiency redundant power supply with P/C built-in	700W high-efficiency redundant power supply with P/C built-in	1400W redundant Gold Level high-efficiency power supply with PMBus 4 sets of 6-pin 12V for GPU or graphics cards
COOLING SYSTEM	3 x 8cm heavy duty fans with air shroud & optimal fan speed control	3 x 8cm heavy duty fans with air shroud & optimal fan speed control	4 x 9.2cm hot-swap cooling fans with air shroud 2 x 8cm exhaust fans optimal fan speed control
FORM FACTOR	2U Rackmount 437 x 89 x 648mm (17.2" x 3.5" x 25.5")	2U Rackmount 437 x 89 x 648mm (17.2" x 3.5" x 25.5")	4U Rackmount/Tower 437 x 178 x 648mm (17.2" x 7" x 25.5")



**A+ Server 4021M-82R+(B)/
A+ Server 4021M-T2R+(B)**

A+ Server 4021M-32R(B)

A+ Workstation 4021A-T2(B)

A+ Workstation 4020C-T(B)

Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Six-Core AMD Opteron™ 2000 Series Processors	Dual-Core AMD Opteron™ 200 Series Processors
Mission-critical applications, enterprise server, large database, e-business, Internet, online transaction processing, NAS	Mission-critical applications, enterprise server, large database, e-business, Internet, online transaction processing, NAS	High-end workstation, business critical applications, front-end server, database applications, video server	High-end workstation, business critical applications, front-end server, database applications, video server
100% cooling redundancy Up to 8 SCA/SATA drive bays PCI-X and PCI-Express 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLC (IPMI 2.0) management 800W high-efficiency redundant power supply	100% cooling redundancy 8 SAS/SATA drive bays PCI-X and PCI-Express 64 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLP(+)(IPMI 2.0) management 800W high-efficiency redundant power supply	SuperQuiet mode Up to 8 SATA drive bays 2 PCI-Express x16 64 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLP(+)(IPMI 2.0) management Low-noise 645W with fan speed control	SuperQuiet mode 8 SATA drive bays 2 PCI-Express x16 16 GB DDR 400 SDRAM 2 Gigabit Ethernet ports Low-noise 645W with fan speed control
H8DM8-2/H8DME-2 / HyperTransport™ technology NVIDIA MCP55-Pro NEC 720400 PCI-X Bridge	H8DM3-2 / HyperTransport™ technology NVIDIA MCP55-Pro AMD 8132 PCI-X Tunnel	H8DAE-2 / HyperTransport™ technology NVIDIA MCP55-Pro + IO55 NEC 720400 PCI-X Bridge	H8DCE / HyperTransport™ technology NVIDIA nForce Pro 2200 NVIDIA nForce Pro 2050
128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets*	64 GB ECC Reg. DDR2 800/667/533 SDRAM in 8 DIMM sockets	64 GB ECC Reg. DDR2 800/667/533 SDRAM in 8 DIMM sockets	16/32 GB ECC Reg. DDR 400/333 SDRAM in 8 DIMM sockets
2 PCI-Express x8 2 64-bit PCI-X 133/100 MHz 2 64-bit PCI-X 100 MHz SIMLC IPMI slot	2 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 2 64-bit PCI-X 133/100 MHz 1 64-bit PCI-X 133 MHz SIMLP IPMI slot	2 PCI-Express x16 1 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 1 64-bit PCI-X 133 MHz 1 64-bit PCI-X 100 MHz SIMLP IPMI slot	2 PCI-Express x16 2 PCI-Express x4 (using x8 slot) 3 32-bit PCI
Adaptec® 7902 2-channel Ultra320 SCSI with host RAID (4021M-82R+ only) NVIDIA MCP55-Pro for 6 SATA	LSI 1068E SAS Controller NVIDIA MCP55-Pro for 6 SATA	NVIDIA MCP55-Pro for 6 SATA	NVIDIA nForce Pro 2200 & 2050 SATA (3 Gbps) for 8 SATA NVIDIA RAID 2.0 support
AOC-LPZCR1 or AOC-LPZCR2 (4021M-82R+ only)	AOC-iButton68	N/A	N/A
Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with NVIDIA MCP55-Pro Gigabit Ethernet controller ALC883 audio CODEC high definition 7.1 channel sound	Dual LAN with NVIDIA nForce Pro 2200 & 2050 Gigabit Ethernet controller AC'97 audio CODEC high quality 6-channel sound
SIMLC (IPMI 2.0), SuperDoctor III, Watch Dog	SIMLP(+)(IPMI 2.0), SuperDoctor III, Watch Dog	SIMLP(+)(IPMI 2.0), SuperDoctor III, Watch Dog	SuperDoctor III, Watch Dog
2.4/6 TB	SAS: 2.4 TB SATA: 8 TB	6 TB	6 TB
8/6 x 3.5" hot-swap SCA/SATA drive bays	8 x 3.5" hot-swap SAS/SATA drive bays	6 x 3.5" hot-swap SATA drive bays and 2 spare SATA drive bays 2 x 5.25" drive bay	6 x 3.5" hot-swap SATA drive bays and 2 spare SATA drive bays 2 x 5.25" drive bay
N/A	N/A	optional floppy drive	1 floppy drive
800W high-efficiency redundant power supply with FC built-in	800W high-efficiency redundant power supply with FC built-in	645W with low-noise fan speed control	645W with low-noise fan speed control
3 x 8cm hot-swap cooling fans & 2 x 8cm exhaust fans with air shroud & optimal fan speed control	3 x 8cm hot-swap cooling fans & 2 x 8cm exhaust fans with air shroud & optimal fan speed control	4 x 8cm 4-pin Pulse Width Modulated (PWM) fans with air shroud 1 x 8cm exhaust fan	4 x 8cm 4-pin Pulse Width Modulated (PWM) fans with air shroud
4U Rackmount/Tower 437 x 178 x 648mm (17.2" x 7" x 25.5")	4U Rackmount/Tower 437 x 178 x 648mm (17.2" x 7" x 25.5")	4U Rackmount/Tower 437 x 178 x 648mm (17.2" x 7" x 25.5")	4U Rackmount/Tower 437 x 178 x 648mm (17.2" x 7" x 25.5")

*Fully populated DDR2 800/667 will be downgraded to DDR2 533



NEW!

4-Way

4-Way



	A+ Server 1041A-T2F(B)	A+ Server 1041M-T2+B	A+ Server 1041M-82(B)/ A+ Server 1041M-T2(B)
PROCESSOR SUPPORT	Six-Core AMD Opteron™ 8000 Series Processors	Six-Core AMD Opteron™ 8000 Series Processors	Six-Core AMD Opteron™ 8000 Series Processors
KEY APPLICATIONS	Mission critical applications, enterprise server, large database, e-business, online transaction processing	High performance computer cluster (HPCC) Virtualization server, online transaction processing	Mission critical applications, enterprise server, large database, e-business, online transaction processing
OUTSTANDING FEATURES	1U 4-way system 3 SATA drive bays 1 PCI-Express 2.0 x16 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports IPMI 2.0 + KVM with dedicated LAN 1000W high-efficiency power supply	1U 4-way system 3 SATA drive bays 1 Low-profile PCI-Express x16 slot 256 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLC/SIM1U+ (IPMI 2.0) management 1000W high-efficiency power supply	1U 4-way system 3 SCA/SATA drive bays 1 PCI-Express x16 or HyperTransport 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMSO+ (IPMI 2.0) management 1000W high-efficiency power supply
SERVERBOARD/CHIPSET	H8QIi-F / HyperTransport™ technology AMD SR5690/SP5100	H8QMi-2+ / HyperTransport™ technology NVIDIA MCP55-Pro NEC 720400 PCI-X Bridge	H8QM8-2+/H8QME-2+ / HyperTransport™ technology NVIDIA MCP55-Pro AMD 8132 PCI-X Tunnel
SYSTEM MEMORY (Max.)	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets	256 GB ECC Reg. DDR2 800/667/533 SDRAM in 32 DIMM sockets**	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets
EXPANSION SLOTS	1 PCI-Express 2.0 x16 or HyperTransport conn. Universal I/O slot	1 PCI-Express x16 (low profile) SIMLC IPMI slot	1 PCI-Express x16 or HyperTransport conn. SIMSO IPMI socket
ONBOARD SAS/SCSI/SATA/ IDE/RAID	AMD SP5100 for 3 SATA	NVIDIA MCP55-Pro for 3 SATA	Adaptec® 7902 2-channel Ultra320 SCSI (1041M-82 only) NVIDIA MCP55-Pro for 3 SATA (1041M-T2 only)
ZERO CHANNEL RAID SUPPORT	N/A	N/A	N/A
CONNECTIVITY/VGA/ AUDIO	Dual LAN with Intel 82576 Gigabit Ethernet controller Matrox G200eW graphics controller	Dual LAN with Intel 82546GB Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with Intel 82546GB Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller
MANAGEMENT	IPMI 2.0, KVM and VM options, Watch Dog, SuperDoctor III	SIMLC/SIM1U+ (IPMI 2.0), SuperDoctor III, Watch Dog	SIMSO+ (IPMI 2.0), SuperDoctor III, Watch Dog
INTERNAL STORAGE (Max)	3 TB	3 TB	1.2/3 TB
DRIVE BAYS	3 x 3.5" hot-swap SATA drive bays	3 x 3.5" hot-swap SATA drive bays	3 x 3.5" hot-swap Ultra320/160 SCA drive bays with SAF-TE (1041M-82 only) 3 x 3.5" hot-swap SATA drive bays (1041M-T2 only)
PERIPHERAL BAYS	1 slim DVD-ROM drive optional slim floppy drive	1 slim DVD-ROM drive optional slim floppy drive	1 slim DVD-ROM drive optional slim floppy drive
POWER SUPPLY	1000W high-efficiency power supply with FC built-in	1000W high efficiency power supply with FC built-in	1000W high-efficiency power supply with FC built-in
COOLING SYSTEM	6 x 4cm heavy duty counter-rotating fans with air-shroud & optimal fan speed control	6 x 4cm heavy duty counter-rotating fans with airshroud & optimal fan speed control	6 x 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 705mm (17.2" x 1.7" x 27.75")

4-Way**4-Way****4-Way****4-Way**
**A+ Server 1040C-8(B)/
A+ Server 1040C-T(B)**
**A+ Server 2041M-32R+B/
A+ Server 2041M-T2R+B**
A+ Server 4041M-32R+B
**A+ Server 4041M-82R(B)/
A+ Server 4041M-T2R(B)**

Dual-Core AMD Opteron™ 800 Series Processors	Six-Core AMD Opteron™ 8000 Series Processors	Six-Core AMD Opteron™ 8000 Series Processors	Six-Core AMD Opteron™ 8000 Series Processors
Mission critical applications, enterprise server, large database, e-business, online transaction processing	Mission-critical applications, enterprise server, large database, e-business, Internet, online transaction processing	Mission-critical applications, enterprise server, large database, e-business, Internet, online transaction processing	Mission-critical applications, enterprise server, large database, e-business, Internet, online transaction processing
1U 4-way system 3 SCA/SATA drive bays 1 PCI-Express x8 or HyperTransport Up to 32GB DDR 400 SDRAM 2 Gigabit Ethernet ports 1000W High Efficiency power supply	Enterprise level 4-way system Up to 6 SAS/SATA drive bays 2 PCI-Express x16 and HyperTransport 256 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLC/SIM1U+ (IPMI 2.0) management Redundant 1200W power supply	Enterprise level 4-way system Up to 10 SAS drive bays 2 PCI-Express x16/x8 or HyperTransport 256 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMLC/SIM1U+ (IPMI 2.0) management Redundant 1200W power supply	Enterprise level 4-way system Up to 10 SCA/SATA drive bays 2 PCI-Express x16/x8 or HyperTransport 128 GB DDR2 800/667/533 SDRAM 2 Gigabit Ethernet ports SIMSO(+)(IPMI 2.0) management Redundant 1000W power supply
H8QC8+/H8QCE+ / HyperTransport™ technology NVIDIA nForce Pro 2200 AMD 8132 PCI-X Tunnel	H8QM3-2/H8QMi-2 / HyperTransport™ technology NVIDIA MCP55-Pro + IO-55 NEC 720400 PCI-X bridge	H8QM3-2 / HyperTransport™ technology NVIDIA MCP55-Pro + IO55 NEC 720400 PCI-X Bridge	H8QM8-2/H8QME-2 / HyperTransport™ technology NVIDIA MCP55-Pro AMD 8132 PCI-X Tunnel
32/64 GB ECC Reg. DDR 400/333 SDRAM in 16 DIMM sockets	256 GB ECC Reg. DDR2 800/667/533 SDRAM in 32 DIMM sockets*	256 GB ECC Reg. DDR2 800/667/533 SDRAM in 32 DIMM sockets*	128 GB ECC Reg. DDR2 800/667/533 SDRAM in 16 DIMM sockets
1 PCI-Express x8 or HyperTransport connector IPMI socket	2 PCI-Express x16 1 PCI-Express x8 1 PCI-Express x4 (in x8 slot) 1 64-bit PCI-X 133 MHz SIMLC IPMI slot	2 PCI-Express x16 1 PCI-Express x8 1 PCI-Express x4 (in x8 slot) 1 64-bit PCI-X 133 MHz SIMLC IPMI slot	1 PCI-Express x16 or HyperTransport conn. 1 PCI-Express x8 2 64-bit PCI-X 133/100 MHz 2 64-bit PCI-X 100 MHz SIMSO IPMI socket
Adaptec® 7902 2-channel Ultra320 SCSI (1040C-8 only) NVIDIA nForce Pro 2200 for 3 SATA (1040C-T only)	LSI® 1068E SAS Controller for 8 SAS/SATA ports (2041M-32R+ only) NVIDIA MCP55-Pro for 6 SATA (2041M-T2R+ only)	LSI® 1068E SAS controller NVIDIA MCP55-Pro for 6 SATA	Adaptec® 7902 2-channel Ultra320 SCSI with host RAID (4041M-82R only) NVIDIA MCP55-Pro for 6 SATA (4041M-T2R only)
N/A	AOC-iButton68 (2041M-32R+ only)	AOC-iButton68	AOC-LPZCR1 or AOC-LPZCR2 (4041M-82R only)
Dual LAN with Intel 82546GB Gigabit Ethernet controller ATI® Rage XL 8MB PCI graphics controller	Dual LAN with Intel 82546GB Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with Intel 82546GB Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller	Dual LAN with Intel 82546GB Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller
IPMI 2.0, SuperDoctor III, Watch Dog	SIMLC/SIM1U+ (IPMI 2.0), SuperDoctor III, Watch Dog	SIMLC/SIM1U+ (IPMI 2.0), SuperDoctor III, Watch Dog	SIMSO(+)(IPMI 2.0), SuperDoctor III, Watch Dog
0.9/3 TB	1.8/6 TB	3.0/6 TB	3.0/6 TB
3 x 3.5" hot-swap Ultra320/160 SCA drive bays with SAF-TE (1040C-8 only) 3 x 3.5" hot-swap SATA drive bays (1040C-T only)	6 x 3.5" hot-swap SAS or SATA drive bays	Default 1 mobile rack (5 drives) Support up to 2 mobile racks (10 drives)	Default 1 mobile rack (5 drives) Support up to 2 mobile racks (10 drives)
1 slim DVD-ROM drive optional slim floppy drive	1 slim DVD-ROM drive	1 floppy drive	1 floppy drive
1000W high-efficiency power supply with FC built-in	1200W high efficiency redundant power supply with FC built-in	Redundant power supply (1200W + 1200W) with FC built-in	Redundant power supply (1000W + 1000W) with FC built-in
6 x 4cm heavy duty counter-rotating fans with air-shroud & optimal fan speed control	6 x 8cm heavy duty fans with air shroud & optimal fan speed control	3 x 8cm hot-swap cooling fans & 3 x 8cm exhaust fans with air shroud & optimal fan speed control	3 x 8cm hot-swap cooling fans & 3 x 8cm exhaust fans with air shroud & optimal fan speed control
1U Rackmount 437 x 43 x 705mm (17.2" x 1.7" x 27.75")	2U Rackmount 437 x 89 x 708mm (17.2" x 3.5" x 27.75 ")	4U Rackmount/Tower 452 x 178 x 746mm (17.8" x 7" x 29.4")	4U Rackmount/Tower 452 x 178 x 746mm (17.8" x 7" x 29.4")

*Fully populated DDR2 800/667 will be downgraded to DDR2 533

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Chassis Management Module



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