



**PCI-X / 18 DIMMs**



**7 PCI-E 2.0 / 18 DIMMs / IPMI**



**1U / 2 GPU**



**4 GPU**



MODEL	X8DTN+	X8DAH+(-F)	X8DTG-DF	X8DTG-QF
Processor	Intel® Xeon® Processor 5500 Series (Nehalem)	Intel® Xeon® Processor 5500 Series (Nehalem)	Intel® Xeon® Processor 5500 Series (Nehalem)	Intel® Xeon® Processor 5500 Series (Nehalem)
Chipset/System Bus	Intel® 5520 chipset with QPI up to 6.4GT/s	Dual Intel® 5520 chipset with QPI up to 6.4GT/s	Intel® 5520 chipset with QPI up to 6.4GT/s	Intel® 5520 chipset with QPI up to 6.4GT/s
Form Factor	Ext. ATX 13.68"W x 13"H	Ext. ATX 13.68"W x 13"H	Proprietary 7.71"W x 16.64"H	Proprietary 15.2"W x 13"H
Memory Capacity & Slots	144 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 18 DIMMs	144 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 18 DIMMs	48 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM	96 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM
Expansion Slots	2 PCI-E 2.0 x8 (1 in x16 slot) 1 PCI-E x4 (in x8 slot) 3 PCI-X 133/100 1 UIO (PCI-E 2.0 x8)	2 PCI-E 2.0 x16 4 PCI-E 2.0 x8 (1 in x16 slot) 1 PCI-E 2.0 x4	Riser card: 2 PCI-E 2.0 x16 1 PCI-E 2.0 x4 or: 4 PCI-E 2.0 x8 1 PCI-E 2.0 x4	4 PCI-E 2.0 x16 2 PCI-E 2.0 x4 1 PCI-E x4 (in x16 slot) 2 PCI
Onboard RAID Controller	Intel® ICH10R for 6 SATA (3 Gbps): RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)	Intel® ICH10R for 6 SATA (3 Gbps): RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)	Intel ICH10R for 6 SATA (3 Gbps): RAID 0, 1, 5, 10 (Windows) RAID 0,1,10 (Linux)	Intel ICH10R for 6 SATA (3 Gbps): RAID 0, 1, 5, 10 (Windows) RAID 0,1,10 (Linux)
Onboard LAN	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with Intel® 82574L Gigabit Ethernet
Onboard VGA	ATI ES1000 32Mb graphics controller	Matrox G200eW (X8DAH+-F only)	Matrox G200eW Graphics	Matrox G200eW Graphics
Built-in EIDE USB Ports	ATA 133 Up to 7 USB 2.0 ports	ATA 133 Up to 10 USB 2.0 ports	Up to 4 USB 2.0 ports	Up to 10 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	7.1 HD audio 2 IEEE 1394a header 1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard	1 floppy port 1 fast UART 16550 serial	7.1 HD audio 1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard
Manageability	AOC-SIMLP-B(+); AOC-SIMLP-3(+) with 3rd LAN support, Watch Dog SuperDoctor® III	IPMI 2.0 + KVM with dedicated LAN (F versions only) Watch Dog SuperDoctor® III	IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor® III	IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor® III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 4-fan status, supports system management utility	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM fan speed control & overheat LED indication	4-pin PWM fan speed control & overheat LED indication	4-pin PWM fan speed control & overheat LED indication	4-pin PWM speed control & overheat LED indication
Other Features	ACPI power management, WOL, control of power-on for recovery from AC power loss, SDDC, TM2 & CPU thermal trip support for processor protection	ACPI power management, WOL, control of power-on for recovery from AC power loss, SDDC, TM2 & CPU thermal trip support for processor protection	ACPI power management, WOL, control of power-on mode for recovery from AC power loss, SDDC, UID, TM2 & CPU thermal trip support for processor protection	ACPI power management, WOL, control of power-on mode for recovery from AC power loss, SDDC, TM2 & CPU thermal trip support for processor protection
BIOS	AMI 32 Mb SPI Flash ROM	AMI 32 Mb SPI Flash ROM	AMI 32 Mb SPI Flash ROM	AMI 32 Mb SPI Flash ROM

# Optimized Chassis and Accessories



Gold Level  
80 PLUS® Certified  
Power Supplies



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## SC818G-1400B

- 2x double-width high-end GPU optimized, designed for high-end heterogeneous computing applications
- 1400W high-efficiency power supply
- 3x 3.5" Hot-swap drive bays
- Expansion: 4x full-height, full-length + 1 low-profile (with riser bays) or 2x double-width high-end graphics cards (optimized) + 1 low-profile
- 8x 4cm heavy duty counter-rotating fans with optimal fan speed control
- Motherboard supported: X8DTG-2 and X8/H8 Twin MB



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Power Supplies



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## SC747TQ-R1400B

- 11x full-height, full-length PCI-E expansion slots
- 1400W Gold Level high-efficiency Redundant (1+1) power supply
- Whisper-Quiet w/ PMBus support
- 8x 3.5" Hot-swap SATA drive bays, 3x fixed 3.5" device bay
- 4x 92mm hot-swap fans and 2x 80mm hot-swap exhaust fan
- Maximum motherboard supported: multiple form factor up to 15.2" x 13.2"



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## SC825TQ-R720LP

- 720W Gold Level certified redundant power supply
- 8x 3.5" hot-swap SAS/SATA drive bays
- 1x slim DVD-ROM drive (optional)
- 2x 3.5" fixed front drive bays
- 3x 8cm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion Slots
- 1x serial, 2x USB front access I/O



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## SC745TQ-R1200B

- 1200W Gold Level certified redundant power supply
- 8x 3.5" SAS/SATA hot-swap drive bays
- 3x 5.25" peripheral drive bays (one with 3.5" drive bezel)
- 7x full-height, full-length expansion slot
- 3x 8cm hot-swappable cooling fans
- 2x 5000 RPM hot-swappable rear-exhaust Fans
- 2x front USB Ports
- Locking bezel with filter

Chassis \ MB	X8DTN+	X8DAH+(-F)	X8DTG-DF	X8DTG-QF	Fan Setting	
1U	SC113TQ-560C • Certain configuration * Heatink: SNK-P0037P * Riser card: CSE-RR1U-E8 SC113TQ-700C • Heatink: SNK-P0037P * Riser card: CSE-RR1U-E8 SC815TQ-560C • Certain configuration * Heatink: SNK-P0037P * Riser card: CSE-RR1U-E8 SC815TQ-700C SC815TQ-720C * Heatink: SNK-P0037P * Riser card: CSE-RR1U-E8			SC818G-1400B * Heatink: SNK-P0037P * Riser card: RSE-R1UG-E16 RSE-R1UG-E16R RSE-R1UG-UR RSE-R1U-E16R		Server Mode
2U	SC213A-R900LP SC213E1-R900LP SC216A-R900LP SC216E1-R900LP SC216E2-R900LP * Heatink: SNK-P0038P SC823MTQ-R700LP SC825MTQ-R700LP * Heatink: SNK-P0037P SC825TQ-560LP • Certain configuration * Heatink: SNK-P0038P SC825TQ-R700LP SC825TQ-R720LP SC826A-R1000LP SC826E1/E2/TQ-R800LP * Heatink: SNK-P0038P	SC213A-R900LP SC213E1-R900LP SC216A-R900LP SC216E1-R900LP SC216E2-R900LP * Heatink: SNK-P0038P SC823MTQ-R700LP SC825MTQ-R700LP * Heatink: SNK-P0037P SC825TQ-560LP • Certain configuration * Heatink: SNK-P0038P SC825TQ-R700LP SC825TQ-R720LP SC826A-R1000LP SC826E1/E2/TQ-R800LP * Heatink: SNK-P0038P				Server Mode
3U/ Mid-Tower	SC835TQ-R800 SC836A-R1000 SC836E1/E2/TQ-R800 SC836E1/E2/TQ-R900 SC936A-R1000 SC936A-R900 SC936E1/E2-R900 * Heatink: SNK-P0038P	SC835TQ-R800 SC836A-R1000 SC836E1/E2/TQ-R800 SC836E1/E2/TQ-R900 SC936A-R1000 SC936A/E1/E2-R900 * Heatink: SNK-P0038P			Server Mode	
4U/ Tower	SC745TQ-800 SC745TQ-R800 SC846A-R1000 SC846E1-R900 SC846E2-R900 SC846TQ-R900 * Heatink: SNK-P0038P	SC745TQ-800 SC745TQ-R800 SC846A-R1000 SC846E1-R900 SC846E2-R900 SC846TQ-R900 * Heatink: SNK-P0038P		SC747TQ-R1400B * Heatink: SNK-P0040AP4	Server Mode	

Note - When ordering please select the Rev. K version of your chassis for support of Tylersburg motherboards.  
\* Sold separately.