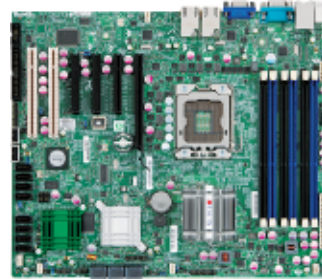


1. Intel® Core™ i7 processor, Core™ i7 Extreme Edition, and future Intel® Nehalem processor families
2. Intel® X58 Express Chipset
3. Quick Path Interconnect (QPI) up to 6.4 GT/s
4. 24GB of DDR3 Unb. ECC or Non-ECC 1333/1066/800 SDRAM
4. 3 PCI-E 2.0 x8 (1 in x16 slot), 1 PCI-E x4 (using x8 slot), 2 PCI
5. Intel ICH10R for 6 SATA2 (3 Gbps); RAID 0, 1, 5, 10
6. Intel Dual 82574L Gigabit Ethernet controllers
7. Integrated IPMI 2.0 w/ Dedicated LAN (X8ST3-F only)
8. LSI 1068E 8 ports SAS controller; RAID 0, 1, 10 (X8ST3-F only)



Processor/Cache

Processor	Intel® Core™ i7 processor, Core™ i7 Extreme Edition, and future Intel® Nehalem processor families
Cache	8MB/L2 cache
QPI	up to 6.4 GT/s

Chipset

Intel® X58 Express chipset
Intel ICH10R

System Memory

Memory Capacity	Six DIMM sockets for up to 24GB of DDR3 Unb. ECC or Non-ECC 1333/1066/800 memory
Memory Type	DDR3 Unb. ECC or Non-ECC 1333/1066/800 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	4GB, 2GB, 1GB, 512MB, 256MB
Memory Voltage	1.5V
Error Detection	Corrects single-bit errors, detects double-bit errors (using ECC memory), and supports Intel® Single Device Data Correction (SDDC)

Integrated On-Board

SATA; RAID	Intel ICH10R for 6 SATA with RAID 0, 1, 5, 10 support
SAS	LSI 1068E 8 port SAS controller; RAID 0, 1, 10 (X8ST3-F only)
LAN	Intel® Dual 82574L Gigabit Ethernet controller; Realtek RTL8201N PHY (dedicated IPMI - X8ST3-F only)
Video	MATROX G200 16MB DDR2
Super I/O controller / BMC	Winbond® 83627DHG chip / Winbond WPCM450

Input/Output

PCI Express	3 PCI-E 2.0 x8 (1 in x16 slot), 1 PCI-E x4 (using x8 slot), 2 PCI
SATA / SAS	Six ports / Eight ports (X8ST3-F only)
USB	8 USB 2.0-compliant ports (2 rear + 2 on-board + 2 headers)
Serial ports	Two serial ports (1 port & 1 header)
Floppy controller	1.44MB support
Keyboard/Mouse	Two PS/2 ports
VGA	1x VGA port

Serverboard Management

Hardware	Watch Dog, NMI, Winbond IPMI 2.0 (X8ST3-F only)
Software	Super ● Doctor III, IPMI 2.0
Thermal Control	4-pin PWM fan speed control & overheat LED indication
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC, TM2 & CPU thermal trip support for processor protection
BIOS	AMI 4Mb SPI Flash ROM

Mechanical

Recommended Chassis	811, 813MTQ, 823TQ, 825TQ, 823MTQ, 825MTQ, 111T, 113MTQ
Serverboard Size	ATX 12" x 10"