

Server Solutions



Thunder i7520D

S5360G2NR-D



Enterprise Server With Dual 800 MHz FSB Xeon™ Processors Solution

- Intel® dual core 800MHz FSB Xeon™ support
- Intel E7520 + (2) 6700PXH + ICH5R
- Up to 32GB DDR registered memory support
- PCI Express™ x8 and PCI-X expansion slot
- SO-DIMM PCI-X interface support SATA, SAS, SCSI HostRAID card (optional)
- Dual GbE LAN ports
- On board ATi® Rage™ XL graphics controller

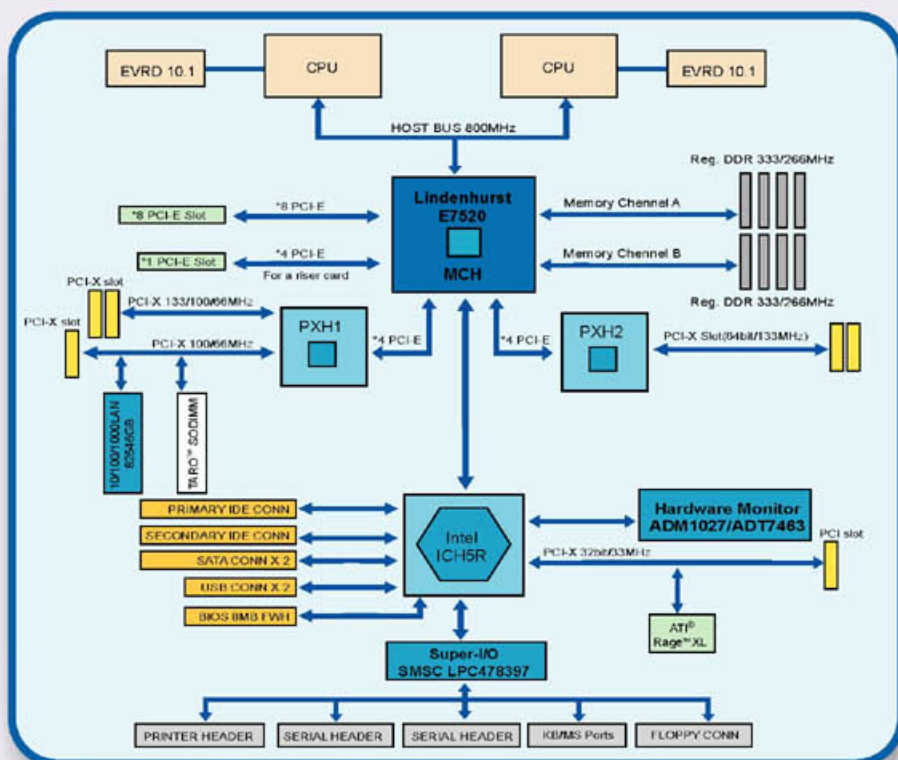
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▲ TOP View

Block Diagram



S P E C I F I C A T I O N S

Processors

- Dual Intel® Xeon™ Nocona/Irwindale/Paxville processors
- Two ZIF mPGA604 sockets
- Onboard EVRD 10.1
- 800 MHz FSB support
- Supports Intel Extended Memory 64 Technology (EM64T)

Expansion Slots

- Three PCI-X 133/100/66 MHz slots*
- One PCI-X 100/66 MHz slots
- One PCI-X 66 MHz slot
- One PCI-E x8 slot
- One PCI-E x4
- One 32-bit/33 MHz PCI 2.2 slot

Chipset

- Intel® Lindenhurst E7520 chipset
- MCH North Bridge and ICH5R South Bridge chips
- Two PXH I/O Bridge chips
- Winbond W83627HF Super I/O chip

Memory

- Eight DDR266/333 DIMM sockets
- Up to 32/16 GB of Registered DDR266/333
- Supports ECC type memory modules

Integrated IDE (Parallel ATA)

- Provides two PCI bus master channels for up to four UDMA IDE devices
- Support for UDMA 33/66/100 IDE and ATAPI devices

Integrated Serial ATA (SATA) Host Controllers

- Provides independent DMA operation on 2 ports
- Data transfer rates up to 1.5GB/s
- Supports RAID 0 or 1 (with 82801ER/ICH5R chip)

Optional SCSI module (Tyan M7902)

- Adaptec AIC7902 dual-channel Ultra320 SCSI controller
- Operating at 64-bit PCI-X bus
- Supports Intel® RAIDIOS™ and Adaptec® Zero-Channel RAID logics
- Supports Adaptec® HostRAID™
- Two 68-pin SCSI connectors

Optional SATA RAID module (Tyan M8110/M8120)

- Adaptec/Marvell 64-bit PCI-X SATA-I controller
- Four 1.5 GB/s SATA ports
- High-performance command queuing with EDMA support
- Supports SATA RAID 0, 1, 10
- Adaptec ZCR support

Optional SAS Module (Tyan M9000)

- Adaptec AIC-9410W 8 port SAS controller
- Support up to 3.0 Gb/s SAS and SATA data transfer
- HostRAID offer RAID level 0,1,10

Integrated I/O

- One floppy connector for up to two drives
- Two 9-pin UART serial support (1 port via cable - optional)
- One 25-pin ECP/EPP parallel header
- PS/2 mouse & keyboard stacked connectors
- Six USB 2.0 ports (2 rear USB connectors, four front USB ports via optional cables)

BIOS

- Phoenix BIOS 8 Mb flash ROM
- Supports ACPI Power Management: S1, S4 and S5 modes
- Auto detection of memory size
- Auto configuration of IDE hard disk types
- User settings of hardware monitoring
- Multiple boot options including PXE
- Supports console re-direction

Form Factor

- Extended ATX (12" x 13", 305mm x 330mm)
- One EPS ATX/12V 24-pin system power connector
- One SSI EEB v3.51 compliant 8-pin split CPU power connector
- Stacked PS/2 mouse/keyboard ports
- Stacked two USB ports
- One serial, one parallel and one VGA ports
- Two RJ45 connectors (Depends on the onboard LAN option)

Integrated PCI Graphics

- ATI® Rage™ XL PCI controller
- 8 MB Frame Buffer

Integrated Dual GbE LAN Controllers

- Dual 10/100/1000 Gigabit Ethernet LANs
- Intel® 82546GB controller
- Supports ASF1.0 or IPMI 1.5
- Two RJ45 connectors with LEDs

System Management

- ADI ADT7463 H/W Monitor IC
- Three 4-pin (3-pin compatible) fan connectors
- Six 3-pin system fan headers
- Tachometer monitoring and PWM control for certain fans
- One 2-pin chassis intrusion header
- SMBus connectors
- Temperature and voltage monitoring
- Watchdog timers
- Optional Tyan's M3289 (Zircon) or M3290 (Zircon-UL) SMDC (Server management Daughter Card) IPMI 1.5 via a 2x25 header.

Regulation

- FCC Class B (Declaration of Conformity)
- European Community CE (Declaration of Conformity)

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