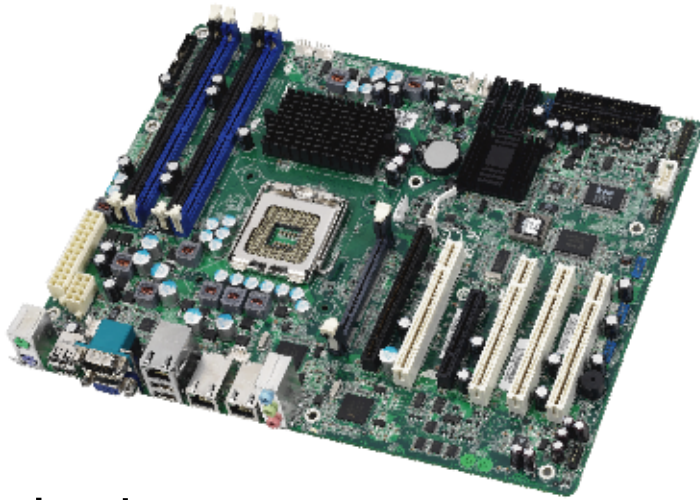


## Intel® SER/WS Platform



Toledo q35T  
S5220AG2NR



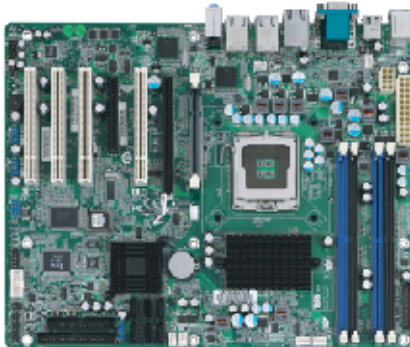
### Intel® Server / Workstation Platform

- Single LGA775 socket, support Intel® FSB 1333/1066/800 MHz Core™ 2 Duo / Wolfdale/ Yorksfield CPUs
- Intel® Q35 + ICH9R
- (4) 240-pin U-DDR2 sockets  
Supports U-DDR2-667/800, Max 8GB.
- (1) PCI-E x16 slot  
(1) PCI-E x8 (w/ x4 link) slot  
(4) PCI slots
- (1) ATA-100 IDE port  
(6) SATA2 connector running at 3.0 Gb/s w/ RAID 0/1/5/10 support
- (2) GbE (Intel® 82573V+82573L)
- Integrated graphics from Q35
- ATX Form Factor (12" x 9.6", 305x244 mm)
- Realtek ALC262

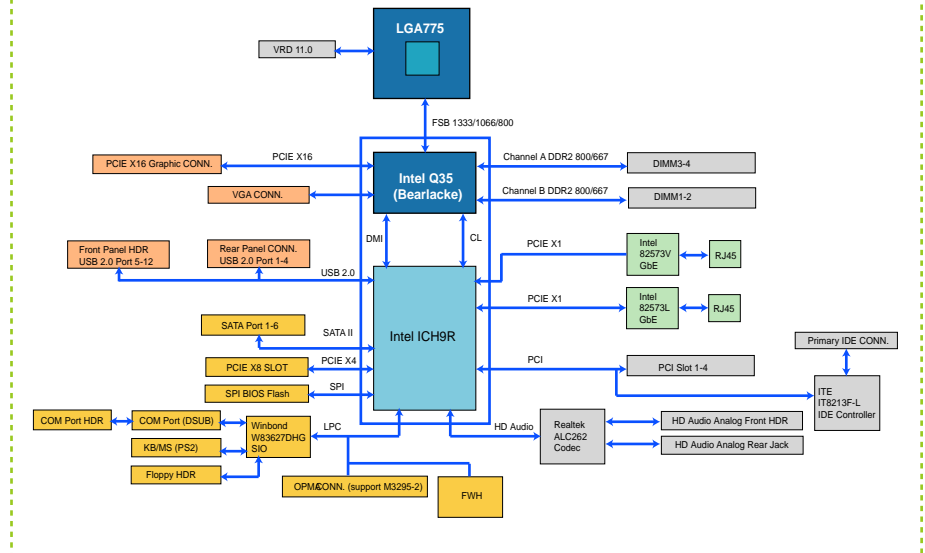
# Toledo q35T

## S5220AG2NR

### ▼ TOP View



### Block Diagram



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

### Processors

- One LGA775-pin Socket support Intel® CPUs of the type below:
  - Intel® Core™ 2 Duo/ Wolfdale / Yorkfield quad core processors
- Supports 800/1066/1333 MT/s

### Memory

- Four 240-pin DDR2 sockets support up to 8 GB
- Dual channel memory bus (must be populated in pairs)
- Un-buffered, nonECC DDR2 677/800MHz DIMM
- Supports 256MB, 512MB, 1GB, 2GB DIMM

### Chipset

- Intel® Q35 Memory Controller Hub(GMCH)
- Intel® 82801IR I/O Controller Hub (ICH9R)
- Winbond W83627DHG super I/O

### Onboard LAN Controllers

- One Intel® 82573L and One Intel 82573V single port Gigabit Controllers

### Integrated 2D/3D Graphics

- Integrated graphics from Q35
- (1) PCI-E x16 slot is available for the VGA card

### Onboard Audio

- Onboard Realtek ALC262
- 2 x 5 pin header

### Expansion Slots

- (1) PCI-E x16 slot
  - Tyan M2061 Riser card : PCI-E x8 to PCI-X

- Tyan M2083 Riser card : PCI-E to PCI-E
- (1) PCI-E x 8 slot with PCI-E x4 link only
- (4) PCI slots

### Integrated SATA Controller

- (6) SATA ports from ICH9R

### Integrated I/O

- (1) 40-pin IDE connector
- (1) 34-pin Floppy connector
- (6) SATA connectors
- (4) pin headers for USB ports (each header supports two USB 2.0 devices)
- (1) pin header for front panel audio ports
- (1) Tyan SMDC connector for server management (M3295-2)
- (1) pin header for SMBUS connection
- (1) chassis LCD module interface connector (alternative of serial port header)

### External I/O Ports

- PS/2 connector
- Stacked Two USB ports
- Stacked COM port and VGA connector
- Stacked Two USB port & (1) 10/100M LAN port
- Two RJ45 10/100/1000M connectors
- Audio connectors (Line-in/Line-Out/Mic-In)

### System Management

- Total 6 fan headers with control and tachometer monitoring
- Monitors voltage for CPU, Memory & Power Supply
- Monitoring temperature for CPU & environment
- One pin header for Chassis Intrusion detection

- Supports Serial Console Redirect
- Supports Watch Dog Timer, S3

### BIOS

- Phoenix BIOS® on 8Mbit Flash ROM
- Supports ACPI 2.0
- Supports boot from USB device
- Power-on mode control for AC power loss recovery

### Form Factor

- ATX form factor 12"X9.6"(305X244mm)

### Power Supply

- EPS12V Power Supply (24-pin, 8-pin power connectors), under 350W

### Regulatory

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

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