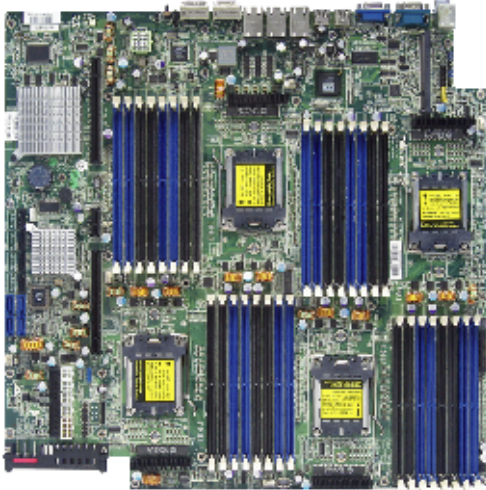


4-Socket Server Solution



Thunder n3600QX

S4987WG2NR / S4987WG2NRI(BTO)



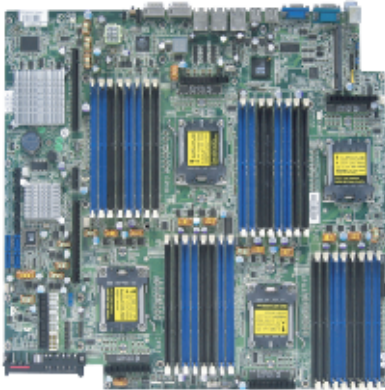
4-way/ 32 DIMM AMD Opteron™ platform
with optional integrated InfiniBand solution

- Quad LGA 1207-pin sockets support up to (4) AMD Opteron™ Quad-Core/ Dual-Core 8000/ 8300 series processors
- Support AMD Dual Dynamic Power Management (DDPM) feature
- nVIDIA nForce® Professional 3600 (NFP 3600)
- (32) 240-pin DDR2 DIMM slots support up to 128GB registered DDR2 667/533/400 w/ ECC memory
- (1) PCI-E x16 slot
- (1) HTX slot
- (8) SAS ports w/ RAID 0, 1, 1E support
- (4) SATA-II ports w/ RAID 0, 1, 5, 10 support
- (2) GbE LAN
- (1) OPMA slot for optional TYAN® M3295-2 SMDC support
- Optional Mellanox InfiniHost III Lx DDR MT25204A0-FCC-D (DDR)

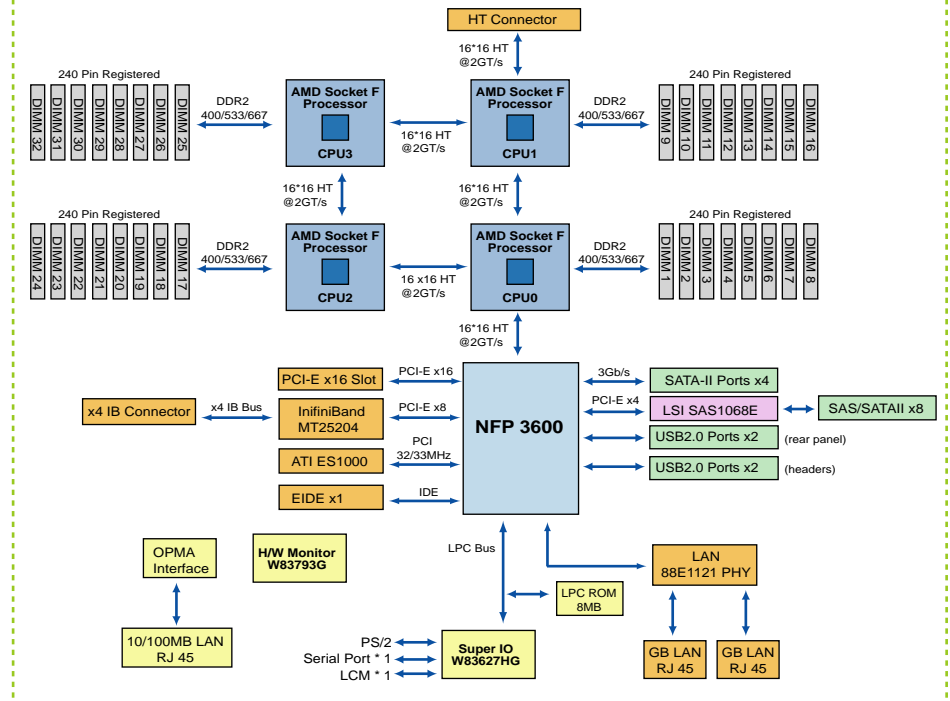
Thunder n3600QX

S4987WG2NR / S4987WG2NRI(BTO)

TOP View



Block Diagram



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

Processors

- . Quad LGA 1207-pin sockets
- . Support up to (4) AMD Opteron™ Quad-Core/ Dual-Core 8000/ 8300 series processors
- . Support 2.0GT/s HyperTransport™ link
- . Support AMD Dual Dynamic Power Management (DDPM) feature

Chipset

- . nVIDIA nForce® Professional 3600 (NFP 3600)
- . Winbond 83627EHG Super I/O chip
- . Winbond W83793G Hardware Monitoring IC

Memory

- . Dual-channel memory bus
- . (32) 240-pin DDR2 DIMM slots
- . Support up to 128GB registered DDR2 667/533/400 w/ ECC memory

Expansion Slots

- . (1) PCI-E x16 slot
- . (1) HTX slot
- . (1) OPMA connector for TYAN® SMDC

Integrated I/O

- . (4) SAS ports (for internal storage)
- . (4) SATA ports
- . (1) IDE connector
- . (2) USB headers
- . (1) 9-pin COM header
- . (1) 2 x 14-pin TYFP3 header

System Management

- . CPU thermal & voltage monitor support

- . (8) fan header: (4) for CPU fans and (4) for system fans
- . (1) backplane fan control header for TYAN GT26 solution
- . Watchdog timer (WDT) support
- . Port 80 code display LED

Integrated 2D / 3D PCI Graphics

- . ATI ES1000 graphic controller
- . PCI interface
- . 32MB DDR video frame buffer memory

Integrated SAS Controller

- . LSI SAS1068E 8-port SAS controller
- . PCI-E x4 interface
- . RAID 0, 1 and 1E support
- . (4) SAS ports (for internal storage)
- . (1) SFF-8470 SAS port (for external storage)

Integrated Serial ATA II Controller

- . SATA-II controller integrated in NFP 3600
- . (4) SATA-II ports w/ RAID 0, 1, 5, 10 support

Integrated LAN Controllers

- . Marvell 88E1121 GbE PHY
- . (2) 10/100/1000 LAN ports

Integrated InfiniBand Controller (S4987WG2NRI only)

- . Mellanox InfiniHost III Lx MT25204A0-FCC-D (DDR version)
- . PCI-E x8 interface

BIOS

- . AMI 8Mbit LPC Flash ROM
- . Serial console redirect
- . USB boot supported
- . Supports APM1.2 and ACPI

- . PnP, DMI, WfM power management
- . S0/ S1/ S4/ S5 states supported

Power Supply

- . EPS1U 12V and 5VSB input only.
- . Onboard power connector : FCI 51915-080

Form Factor

- . 16.63" x 16.098"
- . Fully integrated with TYAN GT26 chassis

Regulatory

- . FCC Class A (DoC)
- . European Community CE (DoC)
- . VCCI
- . C-tick
- . BSMI (Optional)

Server Management

- . Optional TYAN® M3295-2 SMDC
- . IPMI v2.0 compliant

Back Panel I/O Ports

- . (1) stacked PS/2 connectors for mouse and keyboard
- . (1) DB-9 serial port
- . (1) D-sub VGA port
- . (2) side-by-side USB 2.0 ports
- . (3) side-by-side RJ-45 ports (one for dedicate IPMI connection)
- . (1) SFF-8470 InfiniBand 4x port (S4987WG2NRI only)
- . (1) SFF-8470 external 4-port SAS connector

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