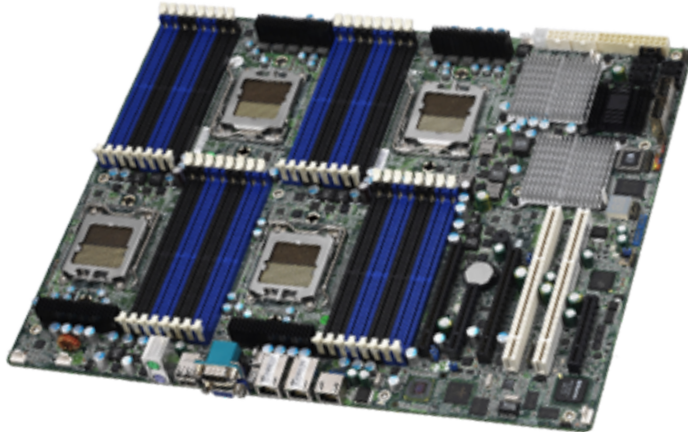


4-Socket Server Solution



Thunder n6550EX

S4989WG2NR



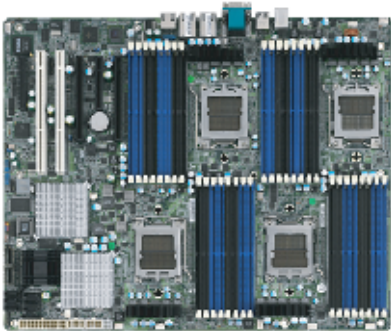
4-way/ 32 DIMM AMD Opteron™ platform
w/ onboard SAS controller

- 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 + 3050 (NFP 3600 + NFP3050)
- (32) 240-pin DDR2 DIMM slots support up to 128GB registered DDR2 667/533/400 w/ ECC memory
- (2) PCI-E x16 slots
- (2) PCI-E x8 slots
- (2) PCI-X 64/133MHz
- (8) SAS ports w/ RAID 0, 1, 1E support
- (6) SATA-II ports w/ RAID 0, 1, 5, 10 support
- (2) GbE LAN + (1) 10/100 LAN (dedicate for IPMI)
- (1) onboard iKVM support

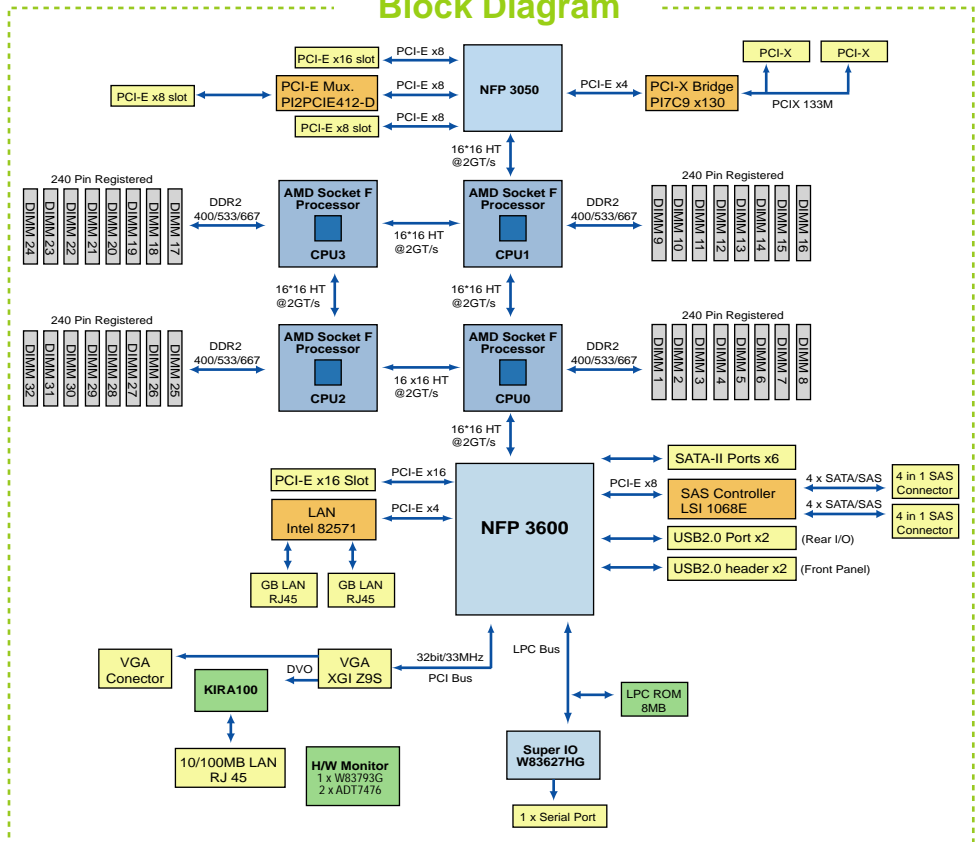
Thunder n6550EX

S4989WG2NR

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

- . VIDIA nForce® Professional 3600 + 3050 (NFP 3600+NFP3050)
- . PERICOM P17C9X130 PCI-X bridge
- . PERICOM PI2PCIE412-D PCI-E Mux.
- . Winbond W83793G + (2) ADT7476 Hardware Monitoring ICs

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

- . (2) PCI-E x16 slots
 - (1) x16 lane from NFP3600
 - (1) x8/ x16 lane from PERICOM PI2PCIE412-D (PCI-E Mux.)
- . (2) PCI-E x8 slots
 - (1) x8 lanes from NFP3050
 - (1) x8/ x0 lane from PERICOM PI2PCIE412-D (PCI-E Mux.)
- . (2) PCI-X 64/133MHz slots from PERICOM P17C9X130 (PCI-X Bridge)
- . Total (6) PCI expansion slots

Integrated I/O

- . (2) 9-pin USB headers
- . (6) SATA-II connectors

- . (2) Mini-SAS connectors (total 8 SAS internal ports)
- . (12) 4-pin FAN headers
- . (1) 2x9-pin TYFP1 header
- . (1) 2x6-pin TYFP2 header for Tyan Barebone
- . (1) 2x9-pin FAN header for Tyan Barebone
- . (1) 2x3-pin LCM header
- . (1) 5-pin PSM1 header
- . (1) 3-pin IPMB header

System Management

- . CPU thermal & voltage monitor support
- . (8) fan headers: (4) for CPU fans and (4) for system fans
- . Watchdog timer (WDT) support
- . Port 80 code display LED

Integrated 2D / 3D PCI Graphics

- . XGI Volari™ Z9s 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
- . (2) Mini-SAS internal connector

Integrated Serial ATA II Controller

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

Integrated Network Processor

- . (1) Intel® 82571EB (dual GbE ports)
- . (1) Davicom® DM9161AE 10/100 PHY (dedicated for IPMI connection)
- . WOL and PXE support
- . (2) 10/100/1000 LAN ports and (1) 10/100 LAN port

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 Connector

- . (1) 24-pin, 3V+5V+12V power connector
- . (2) 8-pin, 12V power connector
- . (1) 4-pin, 12V power connector

Form Factor

- . MEB (13" x 16.2")
- . Fully integrated with TYAN TN68 chassis

Regulatory

- . FCC Class B (DoC)
- . European Community CE (DoC)

Server Management

- . Onboard Raritan KIRA 100 supporting KVM-over-IP function
- . IPMI v2.0 compliant

Back Panel I/O Connector

- . (1) stacked PS/2 connectors for mouse and keyboard
- . (2) stacked USB v2.0 ports
- . (1) stacked DB-9 serial port and D-sub VGA port
- . (3) side-by-side RJ-45 ports (one for dedicate IPMI connection)

MITAC INTERNATIONAL CORP.
TYAN® Business Unit

USA
Tel: +1-510-651-8868
Fax: +1-510-651-7688

Taiwan
Tel: +886-2-8751-2200
Fax: +886-2-8751-2211

Netherlands
Tel: +31-10-2467722
Fax: +31-10-4735881

China
Shanghai Tel: +86-21-61431188
Beijing Tel: +86-010-62381108

Japan
Tel: +81-3-3769-8311
Fax: +81-3-3769-8328