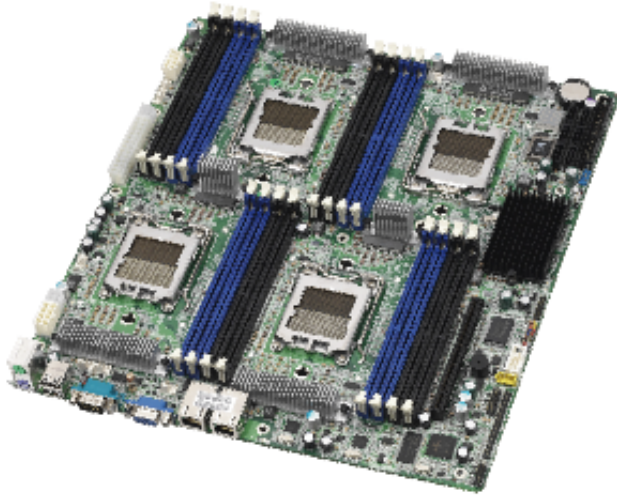


4-Socket Server Solution



E-ATX
Form Factor

Thunder n3600QE

S4980



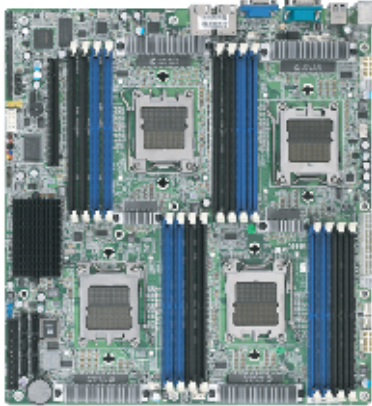
Quad AMD Opteron 8000, E-ATX Platform

- Quad AMD Opteron™ Rev.F 8000 Series Processor in E-ATX
 - Most compact 4-way server platform available.
- Next Generation Memory Support
 - Total 16x DIMM slots
 - Supports quad-rank modules
 - Supports up to 64GB Reg. ECC memory
- Integrated Dual Gigabit Ethernet
 - NFP3600 integrated GbE controller+2x Marvell Phy, w/ teaming support
- Six SATA2 Port Running at 3Gb/Sec
 - nVidia Media Shield supports RAID 0,1,10,5,JBOD

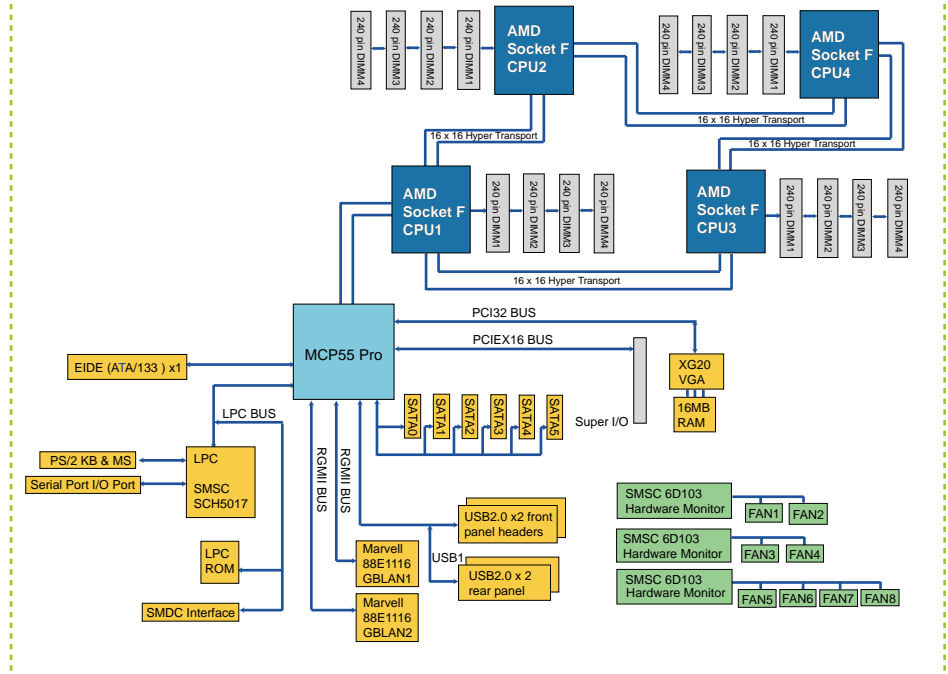
Thunder n3600QE

S4980

TOP View



Block Diagram



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

Processors

- . Quad 1207-pin ZIF sockets
- . Supports up to 4 AMD? Rev.F Optron™ 8000 series processors
- . Up to 1.0GHz Hyper-Transport link support

Chipset

- . nVIDIA® NFP3600 (MCP55 Pro)
- . SMSC SCH5017

Expansion Slots

- . One x16 PCI Express (2nd slot, 2xcontroller)
- . Total one usable expansion slots

System Management

- . SMSC DME5017 w/ 3xEMC6D103
- . 4x CPU FAN & 4x 4-pin system Fan headers, w/ tachometer input and w/ auto fan control)
- . Temperature and voltage monitoring
- . Watchdog timer
- . Port 80 code display LED

Memory

- . Dual memory channels
- . Supports up to sixteen DDR2 667/533/400 DIMMs
- . Up to 64GB of registered, ECC memory
- . Support 4-rank memory

Integrated PCI IDE

- . Single channel master mode support up to two IDE devices
- . Support for ATA-133/100/66/33 IDE drives and ATAPI compliant devices

Integrated Serial ATA II

- . Three serial ATA II Host controllers embedded
- . Supports up to six serial ports running at 3.0Gb/s per direction per channel
- . Serial ATA II specification compliant
- . nVidia MediaShield TM supports for RAID 0, 1, 0+1, 5, JBOD
- . HDD LED Support (TYFP header)

Back Panel I/O Ports (share I/O shield of S3970)

- . Stacked PS/2 Mouse & Keyboard ports
- . One double-decked USB 2.0 port
- . COM1 connector
- . One 15-pin VGA port
- . Two side-by-side RJ4510/100/1000 Base-T port with link/activity LED

Integrated I/O Interfaces

- . One IDE connector
- . Two USB 2.0 Ports (via cable)
- . One COM port (via cable)
- . Tyan 2x 9 pin fan header (for Tyan barebone)
- . Tyan 2x 6 pin front-panel header
- . Tyan 2x 25 pin SMDc header
- . ID LED header
- . SMDc Warning LED header

Integrated 2D/3D PCI Graphics

- . XGI Volari Z7 (XG20)
- . 16MB frame buffer memory

Integrated LAN controllers

- . Two NFP3600 integrated MAC with two Marvell 88E1116 single port Gigabit Ethernet PHY

- Integrated TCP offload Engine (TOE)
- IEEE802.3 compliant, WOL/PXE support
- Front panel LAN LED support (TYFP2 header)

Server Management

- . M3291, IPMI 2.0 Remote System Mgmt card
- . Renesas H8S2167 BMC controller
- . BT, KCS, Logging support
- . IPMI-over-LAN
- . Remote power on/off and reset
- . 2-pin warning LED

BIOS

- . AMI BIOS 8Mbit Flash
- . Supports ACPI 2.0
- . PnP, DMI2.0, WfM2.0 Power Management
- . ACPI S1, S4, S5 support

Power

- . EPS12V power w/ 24+8+8+4 power connectors
- . One extra 2x2 power connector to support next-generation SSI PSU
- . On board 5 -phase digital VRD

Form Factor

- . E-ATX footprint, 12" x 13" (304.8mm x 330.2mm)

Regulatory

- . FCC Class B (Declaration of Conformity)
- . CE (Declaration of Conformity)

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