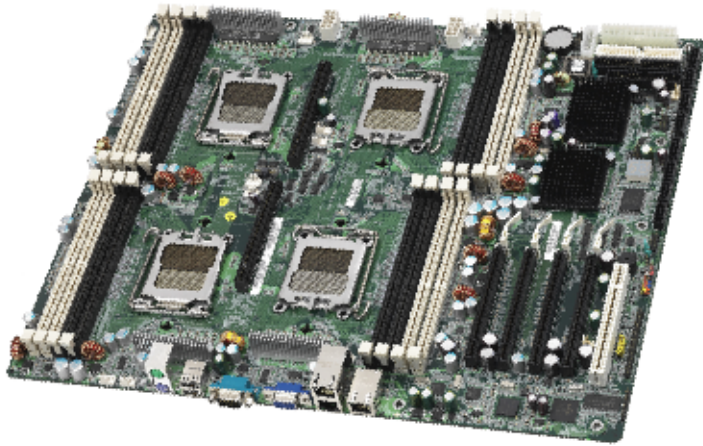


## 8-Socket Server Solution



S4985-E + M4985-E  
S4985G3NR-E



### Industry-Leading 8-socket AMD Opteron™ server platform

- Four LGA 1207 sockets support up to (4) AMD 45nm Quad-Core Opteron™ 8300 series processors
- Support AMD Dual Dynamic Power Management (DDPM) feature
- nVIDIA nForce® Professional 2200 + 2050 (NFP 2200 + NFP 2050)
- (16) 240-pin DDR2 DIMM slots support up to 64GB registered DDR2 667/533/400 w/ ECC memory
- (2) PCI-E x16 slots
- (2) PCI-E x16 slots (w/ x4 link)
- (1) PCI 32/33MHz slot
- (8) SATA-II ports w/ RAID 0, 1, 0+1, 5 support
- (3) GbE LAN
- MEB (13" x 16") form factor
- Optional TYAN® M3291 SMDC for IPMI v2.0 support



S4985-E



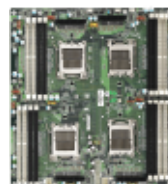
HT Edge Card



M4985-E



8-Socket Solution



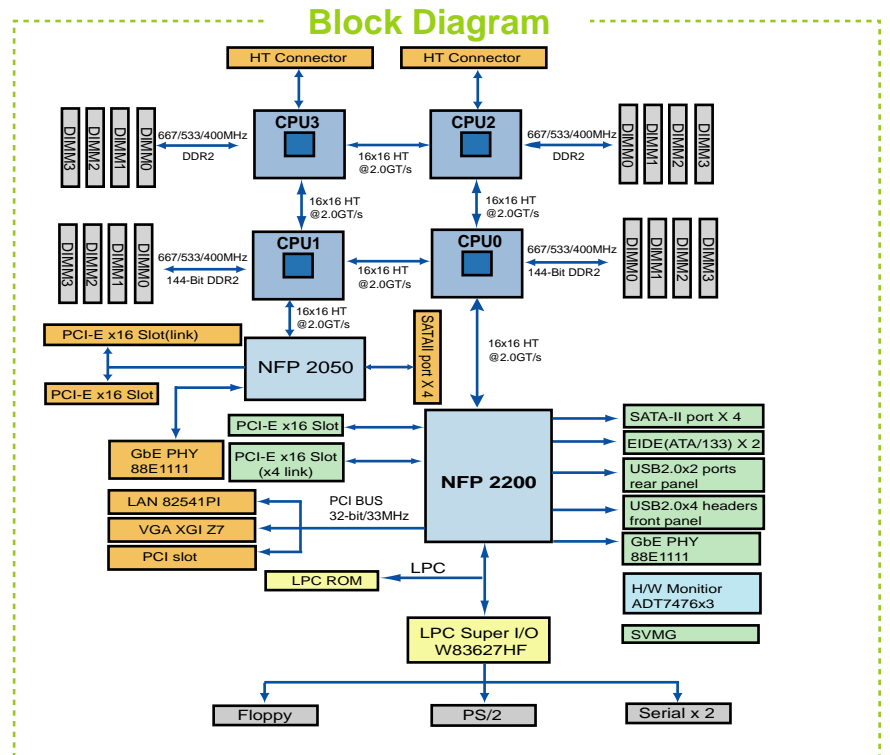
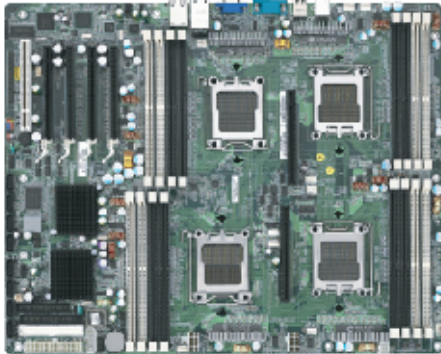
#### M4985-E Processor

- Processor Expansion Board of S4985-E w/ dual HyperTransport™ v1.0 Links
- Four LGA 1207 sockets support up to (4) AMD 45nm Quad-Core Opteron™ 8300 series processors
- (16) 240-pin DDR2 DIMM slots support up to 64GB registered DDR2 667/533/400 w/ ECC memory

# S4985-E + M4985-E

## S4985G3NR-E

### TOP View



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

### Processors

Four LGA 1207 sockets  
Support up to (4) AMD 45nm Quad-Core Opteron™ 8300 series processors  
Support 2.0GT/s Hyper-Transport™ link  
Support AMD Dual Dynamic Power Management ((DDPM) feature

### Chipset

nVIDIA nForce® Professional 2200 + 2050 (NFP 2200 + NFP 2050)  
Winbond W83627HF Super I/O  
(3) Analog Devices ADT7476 Hardware Monitoring IC

### Memory

Dual channel memory bus  
(16) 240-pin DDR2 DIMM slots  
Support up to 64GB registered DDR2 667/533/400 w/ ECC memory

### Expansion Slots

(2) PCI-E x16 slots  
(2) PCI-E x16 slots (w/ x4 link)  
(1) PCI 32/33MHz slot  
Total (5) expansion slots

### Integrated I/O

(1) Floppy connector  
(2) ATA133/100 IDE connector  
(8) SATA-II connectors  
(4) USB v2.0 headers  
(1) 9-pin serial port header

(1) 15-pin parallel port header  
(1) 2x9-pin TYFP header

### Integrated PCI Graphics

XGI Volari™ Z7 graphics controller  
PCI interface  
16MB video frame buffer memory

### Integrated ATA-133

(2) ATA-133 channels  
Support up to (4) ATA-133 devices

### Integrated Serial ATA Controller

SATA-II controllers integrated in NFP2200 and NFP2050  
(8) SATA-II ports w/ RAID 0, 1, 0+1, 5 support

### System Management

Modular 2x25-pin header for SMDC support  
(6) 4-pin fan headers support tachometer monitoring & smart FAN control (PWM)  
(4) 3-pin fan headers support tachometer monitoring  
Temperature & voltage monitoring  
Port 80h LED display

### Integrated LAN Controllers

(2) Marvell 88E1111 GbE PHY  
(1) Intel 82541PI GbE LAN controller  
(3) 10/100/1000 LAN ports

### BIOS

Phoenix BIOS on 8Mbit LPC Flash ROM  
ACPI 2.0; Power management: S0, S1, S4, & S5  
Serial Console Redirect  
USB device boot  
48-bit LBA support

### Power

EPS12V 24 + 8 + 8-pin power connector

### Form Factor

MEB (13" x 16")

### Regulatory

FCC Class A (Declaration of Conformity)  
CE (Declaration of Conformity)

### Server Management

Optional TYAN® M3291 SMDC  
IPMI v2.0 compliant

### Back Panel I/O Ports

(1) stacked PS/2 connector for mouse and keyboard  
(1) stacked 2-port USB 2.0 connector  
(1) DB-9 serial port  
(1) D-sub VGA port  
(2) stacked RJ-45 connectors  
(1) RJ-45 connector