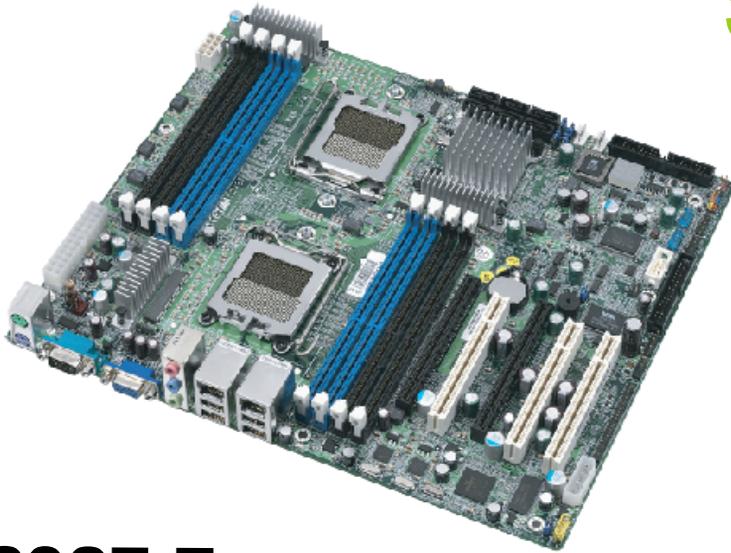


2-Socket Server Solution



S2927-E

S2927A2NRF-E / S2927G2NR-E



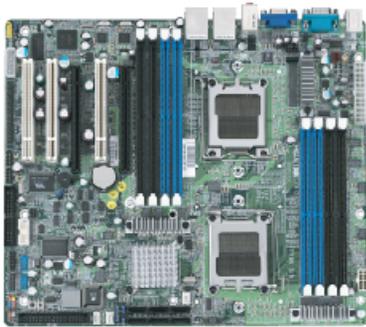
2-socket AMD Opteron™ server/ workstation platform with ATX footprint

- Dual LGA 1207 sockets support up to (2) AMD 45nm Quad-Core Opteron™ 2300 series processors
- Support AMD Dual Dynamic Power Management (DDPM) feature
- nVIDIA nForce® Professional 3600 + 3050 (NFP 3600 + NFP3050)
- (8) 240-pin DDR2 DIMM slots support up to 64GB registered DDR2 800/667/533/400 w/ ECC memory
- (1) PCI-E x16 slot
- (1) PCI-E x16 slot (w/ x8 link)
- (3) PCI 32/33MHz slots
- (6) SATA-II ports w/ RAID 0, 1, 0+1, 5 support
- (2) GbE LAN
- Onboard Audio Codec and Firewire 1394a controller (S2927A2NRF-E)
- Small form factor (12" x 10.2") with ATX footprint

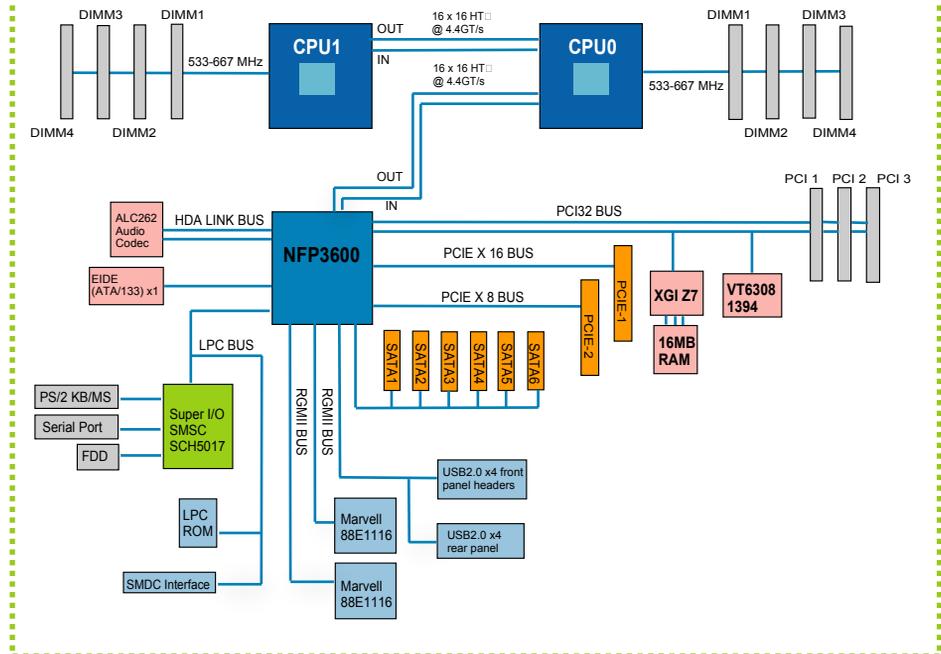
S2927-E

S2927A2NRF-E / S2927G2NR-E

TOP View



Block Diagram



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

Processors

- Dual LGA 1207 sockets
- Support up to (2) AMD 45nm Quad-Core Opteron™ 2300 series processors
- Support 4.4GT/s HyperTransport™ inter-processor link
- Support AMD Dual Dynamic Power Management (DDPM) feature

Chipset

- nVIDIA nForce® Professional 3600 (NFP 3600)
- SMSC SCH5017 Super I/O chip w/ temperature sensing

Memory

- Dual-channel memory bus
- (8) 240-pin DDR2 DIMM slots
- Support up to 64GB registered DDR2 800/667/533/400 w/ ECC memory

Expansion Slots

- (1) PCI-E x16 slot
- (1) PCI-E x16 slot (w/ x8 link)
- (3) PCI 32/33MHz slots
- Total (5) expansion slots

Integrated I/O

- (1) Floppy connector
- (1) ATA133/100 IDE connector
- (6) SATA-II connectors
- (2) USB 2.0 pin headers
- (1) 2 x 9-pin TYFP header
- (1) 2 x 6-pin TYFP2 header
- (1) 9-pin HD Audio header
- (2) 9-pin IEEE 1394a header
- (1) 4-pin CD-in header
- (2) 4-pin CPUFAN headers
- (2) 4-pin SYSFAN headers

System Management

- (4) 4-pin fan header (PWM & tachometer support)
- CPU thermal & voltage monitor support
- (1) 2-pin chassis intrusion header
- Watchdog timer support

Integrated 2D / 3D PCI Graphics (S2927G2NR-E only)

- XGI Volari™ Z7 graphic controller
- PCI interface
- 16MB DDR video frame buffer memory

Integrated Serial ATA II Controller

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

Integrated LAN Controllers

- Marvell 88E1116 GbE PHY
- Total (2) RJ-45 LAN ports

Onboard Audio Controller (S2927A2NRF-E)

- Realtek ALC262 controller (HD audio)
- (3) rear audio ports (Line-In/Line-Out/MIC-In)

Onboard FireWire (1394a) Controller (S2927A2NRF-E)

- VIA VT6308 1394a PCI controller
- (2) IEEE 1394a channel header (internal)

BIOS

- AMI BIOS on 8Mbit LPC Flash ROM
- DSU supports ACPI 2.0
- Serial Console Redirect
- PXE via Ethernet, USB device boot
- PnP, DMI 2.0, WfM 2.0 Power Management
- User-configurable H/W monitoring

- Auto-configuration of hard disk types
- Multiple boot options
- 48-bit LBA support

Power

- EPS12V 24 + 8 + 4-pin power connector

Form Factor

- Small form factor (12" x 10.2") with ATX footprint

Regulatory

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

Rear Panel I/O Ports

- (1) stacked PS/2 connectors for mouse and keyboard
- (1) DB-9 serial port
- (1) D-sub VGA port (S2927G2NR-E only)
- (3) Audio ports (Line-In/Line-Out/MIC-In) (S2927A2NRF-E)
- (2) stacked 2-port USB 2.0 and 1-port RJ-45 connectors

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