TYAN®

2-Socket Server / Workstation Solution

S2915-E
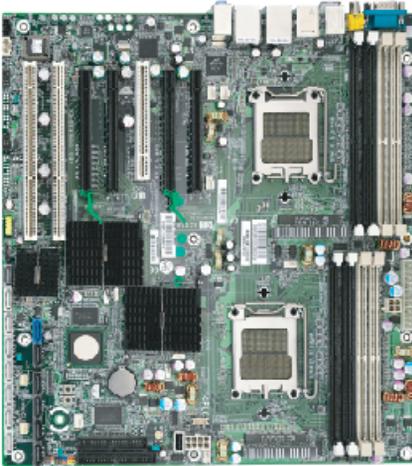
S2915WA2NRF-E / S2915A2NRF-E

2-socket AMD Opteron™ high-end workstation platform

- 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
- (2) PCI-E x16 slots
- (2) PCI-E x16 slots (w/ x8 link)
- (2) PCI-X 64/133MHz slots
- (1) PCI 32/33MHz slot
- (8) SAS ports w/ RAID 0, 1, 1E support (S2915WA2NRF-E)
- (6) SATA-II ports w/ RAID 0, 1, 0+1, 5 support
- (2) GbE LAN
- Onboard Audio Codec and Firewire 1394a controller
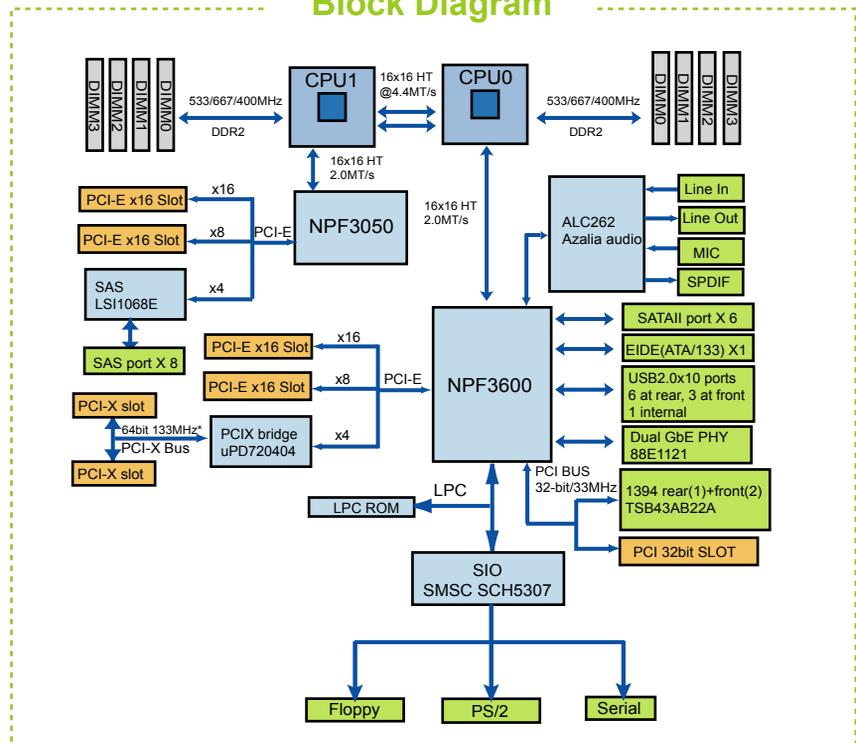- EATX (12" x 13") form factor

S2915-E

S2915WA2NRF-E / S2915A2NRF-E

▼ TOP View

Block Diagram

Block diagram labels: CPU1, CPU0, 16x16 HT @4.4MT/s, 533/667/400MHz DDR2, DIMM3, DIMM2, DIMM1, DIMM0, 16x16 HT 2.0MT/s, NPF3050, PCI-E x16 Slot x16, PCI-E x16 Slot x8, PCI-E, SAS LSI1068E x4, SAS port X 8, PCI-X slot, 64bit 133MHz* PCI-X Bus, PCIX bridge uPD720404 x4, PCI-X slot, ALC262 Azalia audio, Line In, Line Out, MIC, SPDIF, NPF3600, PCI-E x16 Slot x16, PCI-E x16 Slot x8, PCI-E, SATAII port X 6, EIDE(ATA/133) X1, USB2.0x10 ports 6 at rear, 3 at front 1 internal, Dual GbE PHY 88E1121, 1394 rear(1)+front(2) TSB43AB22A, PCI 32bit SLOT, LPC, LPC ROM, PCI BUS 32-bit/33MHz, SIO SMSC SCH5307, Floppy, PS/2, Serial

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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 + 3050 (NFP 3600 + NPF3050)
- NEC uPD720404 PCI-X Bridge
- SMSC SCH5307 Super I/O chip

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
- (2) PCI-E x16 slots
- (2) PCI-E x16 slots (w/ x8 link)
- (2) PCI-X 64/133MHz slots (via NEC uPD720404 PCI-X Bridge)
- (1) PCI 32/33MHz slot
- Total (7) expansion slots

Integrated I/O
- (1) Floppy connector
- (1) ATA133/100 IDE connector
- (6) SATA-II connectors
- (8) SAS connectors (S2915WA2NRF-E only)
- (1) 2-port USB 2.0 pin header
- (1) 1-port USB 2.0 pin header
- (1) USB 2.0 internal connector (Type A)
- (1) 2 x 9-pin TYFP header
- (1) 2 x 6-pin TYFP2 header
- (1) 9-pin HD Audio header
- (1) 9-pin IEEE 1394a header
- (1) 4-pin CD-in header
- (1) 4-pin Aux-in header
- (1) 2-pin SPDIF-in header
- (2) 4-pin CPUFAN headers
- (4) 4-pin SYSFAN headers
- (2) 3-pin SYSFAN headers

System Management
- (6) 4-pin fan header (PWM & tachometer support)
- CPU thermal & voltage monitor support
- (1) 2-pin chassis intrusion header
- Watchdog timer support

Integrated SAS Controller (S2915WA2NRF-E)
- LSI SAS1068E 8-port SAS controller
- PCI-E x4 interface
- RAID 0, 1 and 1E support

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 88E1121 GbE PHY
- Total (2) RJ-45 LAN ports

Onboard Audio Controller
- Realtek ALC262 controller (HD audio)
- (3) rear audio ports (Line-In/Line-Out/MIC-In)
- (1) SPDIF-in header
- (1) rear SPDIF-out port

Onboard FireWire (1394a) Controller
- TI TSB43AB22A 1394a PCI controller
- (1) IEEE 1394a port (external)
- (1) IEEE 1394a channel header (internal)

BIOS
- Phoenix BIOS on 8Mbit LPC Flash ROM
- Supports ACPI (S0, S1, S3, S4, S5)
- 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
- EATX (12" x 13")

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

Rear Panel I/O Ports
- (1) DB-9 serial port
- (1) SPDIF port
- (1) stacked PS/2 connector for mouse and keyboard
- (1) stacked 2-port USB 2.0 and 1-port IEEE 1394 connector
- (2) stacked 2-port USB 2.0 and 1-port RJ-45 connectors
- (3) Audio ports (Line-In/Line-Out/MIC-In)

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