

Sun Fire™ X2100 Server Family

Industry-leading Price/performance



Highlights

- The only one and two-way one-RU x64 server, featuring AMD Opteron processors, starting as less than \$1,000
- Increase space efficiency and reduce cost with server models that have embedded LOM and four networking ports
- Operating system flexibility—runs virtually any operating system, including the Solaris™ OS, Linux®, and Windows
- Reduce data center costs with compact form factor, low energy consumption, and embedded Lights Out Management (LOM)
- LOM simplifies data center management through remote power control and monitoring of key hardware components
- Complete lifecycle management of Sun's x64 systems when using Sun's N1™ System Manager— from bare-metal discovery through configuration, power management, software provisioning, and patching



The Sun Fire™ X2100 server line—comprised of the Sun Fire X2100 and the Sun Fire X2100 M2 servers—is the quintessential cost-effective solution for customers seeking streamlined, high-performance, energy-efficient two-way servers to meet ever-expanding computing needs. It's easy to deploy, scale, and manage—and easy on the budget.

Performance and more

With multiple world-record performance benchmarks, the industry-leading Sun Fire X2100 server line helps organizations keep budgets under control while meeting their computing needs. It incorporates the high-performance, low-latency HyperTransport interconnect, 128-bit data path to high speed DDR2 memory, and new industry-standard PCI-Express technology. The server is the ideal platform for Web, security, network services, application development, and other high-performance computing needs.

Flexibility

The Sun Fire X2100 server line runs 32-bit and 64-bit applications, delivering industry-standard x64 computing. It runs virtually any operating system, including the Solaris™ OS, Linux®, and Windows.

Scalability

Rack-optimized Sun Fire X2100 servers offer the economies of scale of x64 computing, and are perfect for leveraging multiple low-price servers for high availability.

Manageability

The Sun Fire X2100 servers also ease system management. Embedded Lights Out Manager enables remote and centralized system management while maximizing availability, and can also be integrated with N1 System Manager or existing management environments. It simplifies data center management, system configuration, and lifecycle management, as well as software provisioning and updates.

The Sun Fire X2100 servers offer superior performance, energy efficiency, streamlined system management, and a compact footprint at a superb price—optimizing IT investments.

Sun Fire X2100 Server

| | |
|---|---|
| Processor | One AMD Opteron model 100 series processor, single-core (models 146, 148, 154, 156) or dual-core (models 180, 185); one MB Level 2 cache per core |
| Memory | Four DIMM slots, DDR1/400 unbuffered ECC DIMMs (128-bit plus ECC databus), 512 MB, one GB, two GB DIMMs supported, system configurations from 512 MB to eight GB |
| Storage | Up to two hot-pluggable 3.5-inch SATA disk drives; RAID 0, 1 onboard; 80 GB, 250 GB and 500 GB disks supported |
| Internal disk | One EIDE DVD-ROM |
| Removable media | |
| Standard/integrated interfaces | |
| SATA | Four-channel SATA interface, internal access only |
| Network | Two 10/100/1000Base-T Ethernet ports |
| Serial | One TIA/EIA-232-F asynchronous DB9 port |
| USB | Six USB 2.0 ports (two front, four rear) |
| Expansion bus | One eight-lane, internal 64-bit PCI-Express slot (low-profile, half-length) |
| Software | |
| Operating systems | <ul style="list-style-type: none"> • Solaris 10 OS (12/05) or greater, 64-bit • Red Hat Enterprise Linux 3 U6 or greater, 32-bit/64-bit • Red Hat Enterprise Linux 4 U2 or greater, 32-bit/64-bit • SUSE LINUX Enterprise Server 9 SP2 or greater, 64-bit • Windows Server 2003, Standard or Enterprise Edition SP1, 32-bit/64-bit |
| Management | Server Management Daughter Card (SMDC), standard/optional, IPMI 1.5 (in-band and out-of-band) |
| Environmental | |
| Operating temperature (single, nonrack system) | 5° C to 35° C (41° F to 95° F), 10–90 percent relative humidity, noncondensing, 27° C maximum wet bulb |
| Nonoperating temperature (single, nonrack system) | -40° C to 65° C (-40° F to 149° F), up to 93 percent relative humidity, noncondensing, 38° C maximum wet bulb |
| Operating altitude (single, nonrack system) | Up to 3,000m maximum ambient temperature is derated by 1° C per 500m above 500m |
| Nonoperating altitude (single, nonrack system) | Up to 12,000m |
| Acoustic noise emissions | Declared noise emissions in accordance with ISO 9296, A-weighted, sound power: LwAd Idle, at or below 25° C: 6.6 B max, at ambient 7.6 B |
| Power | <ul style="list-style-type: none"> • Single power supply • UL maximum (AC input) 5.13 amps • Power supply rating (max. DC output) 300 W |
| Regulations | |
| Safety | Meets or exceeds the following requirements IEC60950, UL/CSA60950-1, EN60950, CB Scheme with all country differences |
| RFI/EMI | FCC Class A, Part 15 47 CFR, EN55022, CISPR 22, EN300-386:v1.31, ICES-003 |
| Immunity | EN55024, EN300-386-v1.3.2 |
| Certifications | |
| Safety | cULus Mark, TUV GS Mark, CE Mark, CCC, GOST R, S-Mark |
| EMC | CE Mark (93/68/EEC), emissions and Immunity Class A emissions levels: FCC, VCCI, BSMI, C-Tick, MIC, CCC, GOST |
| Other | Reduction of Hazardous Substance (RoHS)-compliant (2002/95/EC), labeled per WEEE (Waste Electrical and Electronic Equipment) directive |
| Dimensions and weight | |
| Height | 43mm (1.69 in.) |
| Width | 425.5mm (16.75 in.) |
| Depth | 550mm (21.68 in.) |
| Maximum weight | 13 kg (28.7 lb.) |

Sun Fire X2100 M2 Server

| |
|--|
| One Next-Generation AMD Opteron model 1000 series processor, dual-core (models 1218, 1214, 1210); one MB Level 2 cache per core |
| Four DIMM slots, DDR2/667 ECC unbuffered DIMMs (128-bit plus ECC databus), 512 MB, one GB and two GB DIMMs supported, system configurations from 512 MB to eight GB |
| Up to two hot-pluggable 3.5-inch SATA II disk drives; RAID 0, 1 onboard; 250 GB and 500 GB disks supported |
| One EIDE DVD-ROM |
| Two-channel SATA II interface, internal access only |
| Four 10/100/1000Base-T Ethernet ports |
| One DB9 port |
| Six USB 2.0 ports (two front, four rear) |
| Riser card assembly with two internal, eight-lane, 64-bit PCI-Express slots (low-profile, half-length) |
| <ul style="list-style-type: none"> • Solaris 10 (6/06) OS, 64-bit • Red Hat Enterprise Linux 3 U8, 32-bit/64-bit • Red Hat Enterprise Linux 4 U4, 32-bit/64-bit • SUSE LINUX Enterprise Server 9 SP3, 64-bit • Windows Server 2003, Standard or Enterprise edition SP1, 32-bit/64-bit |
| Service Processor with embedded Lights Out Management (LOM) standard, IPMI 2.0 (in-band and out-of-band), Full lights-out management using remote keyboard, video, and mouse (KVM), remote media (DVD, CD, floppy) |
| 2° C to 38° C (36° F to 100° F), 7–93 percent relative humidity. Noncondensing, 27° C maximum wet bulb |
| -40° C to 68° C (-40° F to 154° F), up to 93 percent relative humidity. Noncondensing, 38° C maximum wet bulb |
| Up to 3,000m maximum ambient temperature is derated by 1° C per 300m above 900m |
| Up to 12,000m |
| Declared noise emissions in accordance with ISO 9296, A-weighted, sound power: LwAd Idle, at or below 25° C: 6.9 B max, at ambient 7.3 B |
| <ul style="list-style-type: none"> • Single power supply • UL maximum (AC input) 6.5 amps • Power supply rating (max. DC output) 345 W |
| Meets or exceeds the following requirements |
| IEC 60950, UL/CSA 60950, EN 60950, CB scheme with all country differences |
| FCC Class A, Part 15 47 CFR, EN55022, CISPR 22, EN300-386: v1.31, ICES-003 |
| EN55024, EN300-86:v1.3.2 |
| CE Mark, GOST, GS Mark, cULus Mark, CB scheme, CCC, S Mark |
| CE Mark, GOST, ETSI, FCC, DOC, BSMI, C-Tick, MIC, CCC, S Mark |
| Reduction of Hazardous Substance (RoHS)-compliant (2002/95/EC), labeled per WEEE (Waste Electrical and Electronic Equipment) directive |
| 43mm (1.69 in.) |
| 425.5mm (16.75 in.) |
| 633.7mm (25 in.) |
| 10.66 kg (23.45 lb.) |