# Sun Fire™ V240 Server

This rack-optimized,dual-processor system provides data center-class availability in a 2RU package at PC pricing.

## A Compact, Cost-Effective, Multiprocessor System in a Small Package

> Powered by either 1 x 1.34 GHz or 2 x 1.5 GHz UltraSPARC® IIIi processors, the Sun Fire V240™ server is an entry-level, data center-class server. It provides high availability and expandability in a compact, 2U package. Four autonegotiating Gigabit Ethernet ports provide multiple connectivity for high-speed, high-bandwidth networking, while hot-swappable, front-accessible disk drives and redundant, hot-swappable power supplies (with independent cords) further enhance the Sun Fire V240 server's uptime. With expandability features such as three PCI slots, up to four disk drives, and 16 GB of memory, the rack-optmized Sun Fire V240 server easily scales to meet the needs of Tier 1 and Tier 2 applications. With a low-cost, integrated SSL option on the motherboard, the Sun Fire V240 server provides fast, secure Web transactions without sacrificing CPU cycles or a PCI slot. The standard System Configuration Card and serviceability features help enable quick upgrades and repairs, while the unit's Sun Advanced Lights Out Manager (ALOM) provides remote management to a large number of servers from virtually anywhere on the network.

## Key Feature Highlights

- Rack-optimized, 2RU/25-in.-depth design
- Up to 1 x 1.34-or 2 x 1.5 GHz processors
- Up to 16 GB memory
- Up to 4 x 73/146-GB, hot-swap, UltraSCSI disks
- Three full-length PCI slots (1 x 64-bit/66 MHz and 2 x 64-bit/33-MHz)
- Redundant power supplies and power cords
- Comes with Solaris™ Operating System, remote management, Sun Java™ Enterprise System software, and a variety of I/O connectivity – all standard

## Sun Fire V240 Server Specifications

### Processor Options

| | |
|---|---|
| Processor | 1 X 1.34 GHz or 2 X 1.5 GHz UltraSPARC IIIi |
| Architecture | 64-bit, 4-way superscalar SPARC® V9 |
| Cache | 64 KB data, 32 KB instruction and 1-MB integrated L2 |

### Main Memory

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|---|---|
| | 4 DIMM slots per processor, registered DDR-1 SDRAM (PC2100) 128 bit + ECC databus system configurations from 512 MB to 16 GB |

### Standard/Integrated Interfaces

| | |
|---|---|
| Network | Four 10/100/1000Base-T Ethernet |
| Network Management | One 10Base-T Ethernet |

| | |
|---|---|
| Serial Management | One TIA/EIA-232-F (RJ45) port |
| Serial Port | One TIA/EIA-232-F asynchronous (DB9) |
| SCSI | One Ultra160SCSI multimode (SE/LVD) |
| USB | Two OHCI-1.0-compliant interfaces,supporting dual speeds of 12 and 1.5 Mbits/sec. each |
| Expansion Bus | Three internal PCI 2.2-compliant expansion slots: One 64-bit, 33/66-MHz, 3.3-V, full-length Two 64-bit, 33-MHz, 5-V, full-length |
| System Configuration | Front-accessible for transfer of system configuration information,including host ID reader and card (removable) |

| Security | Optional Hardware Cryptographic Module, offering security protocol acceleration via a daughtercard |

## Mass Storage and Media

| Internal Disk | Internal Disk Up to two hot-swap, Ultra160SCSI 73/146-GB disks. Mixing of drives is permitted in the combinations: 1 x 73-GB and 1 x 146-GB 2 x 73-GB and 2 x 146-GB |
| Internal DVD | One Slimline ATAPI DVD-ROM (optional) |
| External Disk | Sun StorEdge™ S1 array* Sun StorEdge 3310 SCSI array* Sun StorEdge 3120 SCSI array* Sun StorEdge 3510 FCAL array Sun StorEdge 3511 FCAL array Sun StorEdge 3520 FCAL array Sun StorEdge 5310 FCAL array Sun StorEdge 9990, 9985, 9980, 9970, 9960, 9910 series Sun Storage D240 media tray* *Indicates support for direct attachment to server external SCSI port* |
| External Tape | Sun StorEdge DAT 72 Tape Sun StorEdge L8 Tape Autoloader (Solaris 8 & 9, LT02 & SDLT320) Sun StorEdge L25 (Solaris 9 only, LT02) Sun StorEdge L100 (Solaris 9 only, LT02) Sun StorEdge L500 |

## Software

| Operating System | Solaris 10 beginning with release 03/05; Solaris 9 beginning with release 12/03; Solaris 8 beginning with release HW 07/03. Requires mandatory patch 109885-15 |
| Languages | C/C++, FORTRAN, Sun Java™ programming language; all other standard Sun-supported languages |
| Networking | ONC™, NFS, TCP/IP, SunLink™, OSI, MHS, IPX™/SPX |
| Management | Sun™ Management Center Sun SNMP Agent Sun N1 System Manager Advanced Lights Out Management (ALOM) Sun Net Connect Sun Update Connection |
| Sun Java™ Enterprise System | Included with the Sun Fire V240 server is a 90-day evaluation license for: |

**Network Identity Services**
- Sun Java™ System Directory Server 5 2005Q1
- Sun Java™ System Access manager 6 2005Q1
- Sun Java™ System Directory Proxy Server 5 2005Q1

**Web and Application Services**
- Sun Java™ System Application Server Enterprise Edition 8.1 2005Q1
- Sun Java™ System Message Queue 3 2005Q1 Enterprise Edition
- Sun Java™ System Web Server 6.1 Service Pack 4 2005Q1

**Portal Services**
- Sun Java™ System Portal Server 6 2005Q1
- Sun Java™ System Portal Server Mobile Access 6 2005Q1
- Sun Java™ System Portal Server Secure Remote Access 6 2005Q1

**Communication and Collaboration Services**
- Sun Java™ System Messaging Server 6 2005Q1
- Sun Java™ System Calendar Server 6 2005Q1
- Sun Java™ System Instant Messaging 7 2005Q1

**Availability Services**
- Sun™ Cluster 3.1 9/04
- Sun Cluster Agents for Sun™ ONE Services (Web, App, Directory, Messaging and Calendar Servers and Message Queue)

*Sun Cluster is not currently supported on Solaris 10, but has been loaded for evaluation on other instances of Solaris Operating Environment versions 8 and 9.*

## Power Supplies

One required, two for redundancy (hot-swappable) with separate power cords

Maximum DC output  400 W

## Environment

| AC power | 90 - 264 V AC (47 – 63 Hz) |
| Operating Temperature | 5˚ C to 40˚ C (41˚ F to 104˚ F), 10% to 90% relative humidity, noncondensing, 27˚ C max. wet bulb |

### Get the details.

Learn more about the Sun Fire V240 – a 2U, data center-class server for CRM/ERP applications, application servers, and other network services – by visiting: sun.com/v240.

| Nonoperating Temperature | -40˚ C to 65˚ C (-40˚ F to 149˚ F), up to 93% relative humidity, noncondensing, 38˚ C max. wet bulb |
| Altitude (Operating) | Up to 3000m, maximum ambient temperature is derated by 1˚ C per 500m above 500m |
| Altitude (Nonoperating) | Up to 12,000m |
| Acoustic Noise | Less than 7.1B sound power in ambient temperature of up to 24˚ C |

## Regulation (meets or exceeds the following requirements)

| Safety | IEC60950, UL/CSA60950, EN60950 |
| RFI/EMI | FCC Class A, Part 15 47 CFR, EN55022, CISPR 22 |
| Immunity | EN55024 |
| Certifications Safety | cULus Mark, TUV GS Mark, CE Mark, S-Mark, CCC, GOST |
| EMC | CE Mark (93/68/EEC), FCC authorized Class A, ICES, VCCI, BSMI, CTICK, MIC, CCC, GOST |
| RoHS | Restriction of Hazardous Substances – RoHS compliant configurations available |

## Dimensions and Weight

| Chassis | 87.66mm (3.4 in.) H x 425mm (16.73 in.) W x 635mm (25 in.) D |
| Weight | 19 kg (41.8 lb.) fully configured; 22.4 kg (49.31 lb.) with rackmount rails and cable management arm |
| Enclosure | Fits into a standard 19-in.-wide rack. Four-post rack kit adjustable between 720mm and 925mm |

## Key Applications

Application Server
ERP/CRM/E-commerce
Web Server
Security Portal Server