A complementary addition to the Sun Fire™ server line, the Sun Fire V1280 server delivers Sun's proven reliability, availability, and serviceability (RAS) features at Wintel-server prices. Leveraging Sun's SPARC® and Solaris™ Operating Environment binary compatibility and proven SMP architecture, the rack-optimized Sun Fire V1280 server provides the best investment protection and scalability in its class. Its enterprise-class features include Dynamic Reconfiguration of CPU/memory boards for hot upgrades and easier maintenance, and linear scalability up to twelve processors. Additionally, the Sun Fire V1280 server offers up to 96GB of memory and 9.6GB/sec system bandwidth, which make it an ideal solution for your Windows consolidation needs and a great alternative for high performance technical computing (HPTC).
**Specifications**

Sun Fire™ V1280 Server

**Processor**
- Number: 4, 8, or 12
- Architecture: UltraSPARC IIIiCu, Super scalar SPARC V9, ECC Protected

**Cache per processor**
- Level 1: Parity protected 32 KB instruction and 64 KB data on chip (single-bit errors are corrected)
- Level 2: 8 MB external cache

**System**
- CPU/memory boards: Up to 3 CPU/memory boards* with 4 processors each and up to 32 GB memory per board; maximum 12 processors per server
- Main memory: Up to 96 GB of memory capacity per system
- I/O: 2 integrated gigabit Ethernet ports (66MHz) and one Ultra3 Gbps port (66MHz)
- System interconnect: 9.6GB/s Sun Fireplane interconnect. System bus with redundant data, address and response crossbar interconnect

**Storage**
- Internal: Two 36GB Ultra3 SCSI internal disks
- External: Direct attach to Sun StorEdge™ tape libraries and disk arrays, including: Sun StorEdge T3, T1, D2, A1000, D1000, 3300, 3900, 6900, 9900

**Availability**
- Dynamic Reconfiguration of CPU/Memory boards, hot CPU upgrades, redundant Sun Fireplane Interconnect, redundant network connections, hot swap disks, smart fans, 2N redundant hot swap power supplies, hardened Operating System Kernel, hardened I/O drivers, systems configuration card, proactive self diagnostics, end-to-end data integrity, including ECC, and cluster support.

**Software**
- Operating System: Solaris 8 Operating Environment (version 02/02 or later)
- Languages: C, C++, Pascal, FORTRAN, Java®
- Networking: ONC™/NFS; TCP/IP; SunLink™, OSI, X.25, DCE, Netware
- System monitoring: Solaris Manager Console, Sun Management Center 3.0
- System and network management: Sun Cluster, OpenBoot™ firmware, Solaris Web Start, Solstice DiskSuite™, SunScreen™ Secure Net, VERITAS File System, VERITAS Volume Manager, Solaris Resource Manager, Solaris Bandwidth Manager

**Environment**
- AC power: 200–240V single phase AC, 47–63Hz, with two 115/13 Amp circuits redundant with another two on a separate grid
- Optimum: 22° C (72°F) at 45% non-condensing humidity
- Range: 5°C to 35°C (41°F to 95°F) at 10% to 80% non-condensing humidity
- Altitude: Up to 3,048 meters (10,000 ft)

**Regulations**
- Meets or exceeds the following requirements:
  - U.S. Federal Communications Commission, Part 15, Class A
  - Immunity: EN55024, i.e. EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

**Dimensions and Weight**
- Height: 527mm (20.75 in.) – 12RU
- Width: 445mm (17.5 in.)
- Depth: 558mm (22 in.) excluding cable arm
- Weight: 110–132 kg (240–290 lb.)
- Rack-mount enclosure: All Sun racks and most third party 24" (600mm) and deeper racks 2 per 4 post rack, 1 per 2 post rack

**Upgrades**
- Sun Enterprise®/Netra™ Trade-in allowances are available for Sun Enterprise 450, 35x0, 4x00, and Netra T100 servers
- Older Sun systems: Older Sun servers and other vendors’ systems are eligible under Sun’s Server Consolidation Program
- Other vendors’ systems: Trade-in programs for other vendors’ systems are also available. For more information, contact your local Sun sales representative or authorized Sun reseller.

**Services**
- Provides a worldwide services portfolio that helps enable customers to develop a Sun Fire V1280 solution designed for reliability, serviceability, and growth.

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* The CPU/memory boards used in the Sun Fire V1280 server are not identical to and thus not replaceable with the Sun Fire Midframe and high-end Uniboards.