

Datasheet Fujitsu SPARC Enterprise M5000 server

For the largest departmental and application modules. This is very reliable computing power in a rackable footprint.

Only the best with Fujitsu SPARC Enterprise

Based on robust SPARC architecture and running the leading Oracle Solaris11, Fujitsu SPARC Enterprise servers are ideal for customers needing highly scalable, reliable servers that increase their system utilization and performance through virtualization.

The combined leverage of Fujitsu's expertise in mission-critical computing technologies and high-performance processor design, with Oracle's expertise in open, scalable, partition-based network computing, provides the overall flexibility to meet any task.

A SPARC of steel

Fujitsu SPARC Enterprise M5000 provides ideal growth capability in a mid-range system. Built with the same mission critical RAS features as its larger enterprise class cousins, it offers a flexible rack-mounted design that is ideal for business function growth.

It features non-stop, self-healing mechanisms and the rock solid, dependability needed to run multiple databases and ERP Applications. It can even host high availability clustering between pairs of physical partitions. Total binary compatibility fully protects your application investments, as well as providing Solaris Containers for further sub-divide resources. Fujitsu SPARC Enterprise M5000 has the performance leadership to handle your most important business applications.





Features and benefits

Main features Benefits Flexible investment protection ■ All SPARC64 VI dual-core processor and SPARC64 VII+ quad-core ■ Investment protection for years to come, less risk and lower cost of processor can be mixed and matched in the servers and even ownership. partitions. ■ Scales to nearly twice the performance with the same number of ■ Supports up to 4 physical partitions and thousands of Solaris sockets and similar space and power requirements. Containers, with dynamic reconfiguration and optional Fujitsu ■ Fast deployment of new applications with total availability for PRIMECLUSTER inter-partition clustering. business critical processes. Reliability that makes you forget ■ Engineered with mainframe class self-healing capability. ■ Best suited to the needs of growing databases, financial and other ■ All circuits, processors and memory are constantly monitored to high volume applications. ensure correct and continuous operation. ■ Manages itself so you don't have to. ■ Self-managing hardware also maximizes the opportunity for applications to work at peak performance. World's most advanced OS, Oracle Solaris 11 ■ Minimizes costs of server administration and maintenance ■ Whole network can be virtualized by mapping physical network entities onto virtualization entities Application asset protection by non-disruptive upgrades ■ Solaris 10 Containers can help applications run on Solaris 11 ■ Maximum system operations time due to online systems update ■ Boot Environment greatly reduces downtime for server updates ability ■ Protects business credibility by eliminating information exposure Highest security including delegated administration can minimize risks of attacks and business disruption risks

Topics

Flexible investment protection

Fujitsu has invested in your future by ensuring that new processors can be installed in existing systems. Even better they can be mixed, on the same system boards and in the same physical partitions, with previous processors. This provides unrivalled investment protection and - as you don't need to replace servers so often - it can also reduce your overall IT spends.

As advances in processor technology have continued, Fujitsu SPARC Enterprise and SPARC 64 processors provide the ability to significantly increase performance over time. You can either add more processors (up to 32 cores with Fujitsu SPARC Enterprise M5000) or employ new processors with almost twice the performance. In the latter case the increased performance comes with almost no increase in data center power consumption or additional heat management.

To ensure that all that performance can be fully used, support for up to 4 physical partitions and thousands of Solaris Containers lets you quickly and dynamically reconfigure the system for both existing and new business processes. Plus, in conjunction with Fujitsu PRIMECLUSTER middleware you can also implement fully mission-critical clustered solutions, between physical partitions, inside your M5000.

Reliability that makes you forget

When Fujitsu designed Fujitsu SPARC Enterprise M5000 they looked to their long mainframe heritage to provide the quality and robustness needed in an important mid-range platform. The result is a most reliable, and highly scalable, self-sustaining system. That works well with the world's most popular business application systems and databases. By placing the widest range of error checking and correction systems directly into the hardware, the platform manages itself. This relieves system administrators from most of the difficult diagnostic and recovery tasks required with many other systems. Once you own Fujitsu SPARC Enterprise system you will soon forget the operational problems of the past. Like the engine management systems in the finest cars, everything is monitored and self-managed to ensure all applications work non-stop at the peak of their capability.

World's most advanced OS, Oracle Solaris

Solaris is the only OS that has the scalability, security, and diagnostic features, to fully and quickly comprehend the situation, if a major application problem occurs. That is one of the reasons Solaris has the largest application portfolio and why it is the development platform of choice for many of the world's major business applications.

Technical details

2–8x SPARC64 VII+, SPARC64 VI SPARC64 VII+ quad-core processor (2.66GHz, 128KB L1 cache on core, 11MB L2 cache per chip) SPARC64 VI dual-core processor (2.15GHz, 256KB L1 cache on core, 5MB L2 cache per chip)
cache per chip) SPARC64 VI dual-core processor (2.15GHz, 256KB L1 cache on core, 5MB L2 cach per chip)
SPARC64 VI dual-core processor (2.15GHz, 256KB L1 cache on core, 5MB L2 cache per chip)
per chip)
64 slots
DDR2 SDRAM
16GB-512GB
ECC
Extended ECC
Memory Mirroring support
Memory Patrolling
8GB Memory Expansion (4x 2GB DIMM)
16GB Memory Expansion (8x 2GB DIMM)
32GB Memory Expansion (8x 4GB DIMM)
64GB Memory Expansion (8x 8GB DIMM)
4x 2.5-inch hot-swap SAS
300GB 2.5-inch 10,000rpm
600GB 2.5-inch 10,000rpm
1x 3.5-inch hot-swap bay
DAT72 (option)
1x 128mm bay
CD-RW/DVD-RW (8xDVD-ROM, 6xDVD-RW, 24xCD/CD-R, 10xCD-RW)
2 (6) :: (
2 ports (Gbit/s, RJ45)
1 port 2 10/10/10/10/10/10/10/10/10/10/10/10/10/1
2 ports (10/100Mbit/s, RJ45)
1 port (RS232C, RJ45)
0.000
8x PCI Express (x8, full-height, short)
2x PCI-X (64/32 bit, 66/133 MHz, 3.3V Universal, short)
Expandable to 50 slots (PCI Express, PCI-X) when using 4x External I/O Expansion Units

Supported operating system	amc	
SPARC64 VII+		Oracle Solaris 10 8/07 or later
	317111001111	Oracle Solaris 11
	SPARC64 VI	Oracle Solaris 10 11/06 or later
		Oracle Solaris 11
Operating system release link		www.fujitsu.com/sparcenterprise/manual/notes/
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Server management		
Service processor		eXtended System Control Facility (XSCF)
Supported software		Enhanced Support Facility
Virtualization Virtualization features		Hardware partitioning
virtualization reatures		Hardware partitioning
		Dynamic Reconfiguration
		Capacity on demand Solaris Container
		Solatis Cultalliel
RAS features		Power supply unit,
Processor RAS		Integer register protected by ECC
		L1 cache protected by parity and redundancy and L2 cache protected by ECC
		Dynamic way degradation in L1, L2 cache and TLB
		Hardware Instruction Retry
		Dynamic chip/core degradation
		Operation of processor is recorded automatically
Redundant components		Memory (mirror configuration)
		Hard disk drive (software RAID)
		PCI card (multi-path configuration)
		Fan
		Power supply unit,
		Power system
Hot-swap components		Hard disk drive (software RAID)
		PCI card
		Tape drive (DAT)
		External I/O expansion units
		<u>Fan</u>
Danadaria ()	Daniel de Lui	Power supply unit,
Degradation features	Dynamic degradation	Memory
		Hard disk drive (software RAID)
		Fan
	Charles January 1 10	Power supply unit,
	Static degradation	Processor (chip, core, cache)
		Memory 1/0 hoord
		I/O board
		Hard disk drive
		PCI cards
		<u>Fan</u>

Dimensions / Weight	
Rack-mount (W x D x H)	444 x 810 x 440 mm ; 10U
	17.5 x 31.9 x 17.3 inches ; 10U
Weight	125 kg
	275 lb.
Environment	
Sound pressure (LpAm)	60 dB (A)
Operating ambient temperature	5–35℃ (depending on altitude)
	41–95°F (depending on altitude)
Operating relative humidity	20-80%
Operating altitude	0-3,000 m
	0–10,000 ft
Electrical values	
Rated voltage range	AC 200–240 V
Rated frequency range	50/60 Hz
Rated current max.	24-48 A
Active power max.	3,270 W
Apparent power max.	3,406 VA
Heat emission	11,772 kJ/h
Compliance	
Еигоре	CE
Luiope	RoHS
USA/Canada	FCC
	UL/CSA
Japan	VCCI
China	Chinese RoHS
Когеа	MIC
Taiwan	BSMI
Compliance note	There is general compliance with the safety requirements of major countries.
	National approvals required in order to satisfy statutory regulations or for other
	reasons can be applied for on request.
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Warranty and support services	

More information

Fujitsu platform solutions

In addition to Fujitsu SPARC Enterprise M5000, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system
- BS2000/OSD: Mainframe
- GS21: Mainframe
- ESPRIMO: Desktop PC
- LIFEBOOK: Notebook PC
- CELSIUS: Workstation

Software

www.fujitsu.com/software/

- Interstage: Application infrastructure software
- Systemwalker: System management software
- Symfoware: Database software
- PRIMECLUSTER: Clustering software

More information

Learn more about Fujitsu SPARC Enterprise M5000, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website.

www.fujitsu.com/sparcenterprise/

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/



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