FUJITSU

Datasheet
Fujitsu SPARC Enterprise M3000 server

Powerful entry-level solution to mission critical computing, with the high-end benefits of virtualization, automation and the deployment flexibility of a UNIX application portfolio, usable in both A/C and D/C powered datacenters.

Only the best with Fujitsu SPARC Enterprise
Based on robust SPARC architecture and running the leading Oracle Solaris 11, Fujitsu SPARC Enterprise servers are ideal for customers needing highly scalable, reliable platforms 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 M3000 is the entry to mission-critical system with high-end features plus a 'Super Green Product' profile. It uses the same aggressive RAS functions as its larger enterprise class cousins, yet the compact rack mounted single processor design ensures the lowest possible cost of ownership.

In-built self-healing mechanisms and rock solid dependability, plus the latest   2.86 GHz SPARC64 VII+ processor, means excellent and long term operation for a wide range of systems including databases, ERP application modules and telecommunication systems. Total binary compatibility also fully protects your application investments, as well as providing Solaris Containers for resource virtualization at no extra cost. You will find that Fujitsu SPARC Enterprise M3000 is a cost performance leader for whatever tasks you have in mind.

SPARC64

Features and benefits

Main features	Benefits
Flexible investment protection ■ The latest SPARC64 VII+ quad-core processor, suited to both high performance business tasks and multi-process virtual environment. ■ Supports thousands of Solaris Containers and highly secure clustered environments based on Fujitsu PRIMECLUSTER.	■ Investment protection for years to come, less risk and lower cost of ownership. ■ Scales 30% beyond previous Fujitsu PRIMEPOWER models with lower space and power requirements. ■ Fast deployment of new applications with total availability for business critical processes.
Reliability that makes you forget ■ Engineered with mainframe class self-healing capability. ■ Major circuits of processors and memory are constantly monitored to ensure correct and continuous operation	■ Suits the needs for mission critical systems - databases and various industry application systems including finance and telecommunications. ■ Maximizes the delivery of peak performance by the self-managing hardware.
World's most advanced OS, Oracle Solaris 11 ■ Whole network can be virtualized by mapping physical network entities onto virtualization entities ■ Solaris 10 Containers can help applications run on Solaris 11 ■ Boot Environment greatly reduces downtime for server updates ■ Highest security including delegated administration can minimize risks of attacks	■ Minimizes costs of server administration and maintenance ■ Application asset protection by non-disruptive upgrades ■ Maximum system operations time due to online systems update ability ■ Protects business credibility by eliminating information exposure and business disruption risks

Topics

Flexible investment protection

The use of four core processors reduces the cost of socket based application licenses as well as enabling more flexible and extensive use of Solaris Containers. Add in the high reliability and lower operating costs and you have unrivalled investment protection. Not only will your servers have a longer useful life but they will also reduce your overall IT spends.

As advances in processor technology have continued, Fujitsu SPARC Enterprise and SPARC64 processors provide the ability to significantly increase performance over time. In addition great advances continue to be made in improved Green credentials. M3000 has now achieved Fujitsu's highest classification of "Super Green Product." Not only is it very good to the environment it will also reduce your power consumption and cooling costs.

To ensure that the available performance can be fully used, Solaris Containers let you quickly and dynamically reconfigure the system to support both existing and new processes concurrently. Fully compatible with all Solaris applications Fujitsu SPARC Enterprise M3000 inter-works will all other Solaris and SPARC Enterprise systems to let you start small and grow as your requirements increase.

Reliability that makes you forget

While Fujitsu SPARC Enterprise M3000 is positioned as an entry to mission-critical server, its reliability is second to none. The Fujitsu design reflects a long engineering heritage where quality and robustness are not seen as items only available at the enterprise level. The result is a most reliable self-sustaining system that works well with all the applications it supports. The wide ranging error checking and correction systems are implemented directly in the hardware. This not only takes the pressure off the OS and applications but also ensures the platform really can manage itself. This relieves system administrators from most of the difficult diagnostic and recovery tasks required with many other systems. Once you own a 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 respond if a major application problem occurs. That has directly led to Solaris having one of the world's largest application portfolios and why it is the development platform of choice for many of the world's major software developers.

Technical details

Processor

Processor quantity and type	1 x SPARC64 VII+
Processor options	1 x SPARC64 VII+ quad-core processor (2.86GHz, 128KB L1 cache on core, 5.5MB L2 cache per chip)

Memory

Memory slots	8 slots
Memory slot type	DDR2 SDRAM
Memory capacity (min. – max.)	4GB–64GB
Memory protection	ECC
	Extended ECC
	Memory Patrolling
Memory modules	8GB Memory Expansion (4 x 2GB DIMM)
	16GB Memory Expansion (4 x 4GB DIMM)
	32GB Memory Expansion (4 x 8GB DIMM)

Drive bays

Hard disk bay configuration	4 x 2.5-inch hot-swap SAS
Hard disk drives	300GB 2.5-inch 10,000rpm
	600GB 2.5-inch 10,000rpm
Optical drive bay configuration	1 x 128mm bay
Optical drives	CD-RW/DVD-RW (8xDVD-ROM, 6xDVD-RW, 24xCD/CD-R, 10xCD-RW)

Interfaces

LAN/Ethernet	4 ports (Gbit/s, RJ45)
SAS	1 port (mini-SAS)
Remote Cabinet Interface (RCI)	1 port
Service LAN for XSCF	2 ports (10/100Mbit/s, RJ45)
Service serial for XSCF	1 port (RS232C, RJ45)

Slots

PCI Express	4x PCI Express (x8, full-height, short)

Supported operating systems

Supported operating systems	Oracle Solaris 10 9/10 or later
	Oracle Solaris 11
Operating system release link	www.fujitsu.com/sparcenterprise/manual/notes/

Virtualization

Virtualization features	Solaris Containers

RAS features

Redundant components	Hard disk drive (software RAID/hardware RAID)
	Fan
	Power supply unit,
	Power system
Hot-swap components	Hard disk drive (software RAID/hardware RAID)
	Fan
	Power supply unit,

Dimensions / Weight

Rack-mount (W x D x H)	440 x 657 x 87 mm; 2U
	17.4 x 25.9 x 3.4 inches ; 2U
Weight	22 kg
	48.5 lb.

Environment

Sound pressure (LpAm)	47 dB (A)
Operating ambient temperature	5–35°C (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

Electrical values	AC Power	DC Power
Rated voltage range	AC 100–120V, AC 200–240V	DC -48 V, DC -60V
Rated frequency range	50/60 Hz	-
Rated current max.	5.15 A (100V–120V)	10.52 A (-48V)
	2.81A (200V–240V)	8.50A (-60V)
Active power max.	505W (100V–120V)	505W (-48V)
	500W (200V–240V)	510W (-60V)
Apparent power max.	515VA (100V–120V)	-
	562VA (200V–240V)	
Heat emission	1,818 kJ/h (100V–120V),	1,818 kJ/h (-48V)
	1,802 kJ/h (200V–240V)	1,836 kJ/h (-60V)

Compliance

Europe	CE
	RoHS
USA/Canada	FCC
	UL/CSA
Japan	VCCI
China	CCC
	Chinese RoHS
Korea	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.

Warranty and support services

Service link	www.fujitsu.com/support

More information

Fujitsu platform solutions

In addition to Fujitsu SPARC Enterprise M3000, 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 M3000, 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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