

PRIMEQUEST 520 Server

The PRIMEQUEST™ 500 server family is your answer to mission-critical capability in the IA arena. With world-leading high availability “System Mirror” hardware technology, PRIMEQUEST servers support business-critical environments for deploying Windows and Linux applications in your data center. The PRIMEQUEST 520 server provides all the capabilities and benefits of its “Big Brother” PRIMEQUEST 580/540 servers, bringing the mainframe-class features to a compact rack-mount form factor. Built within the Fujitsu TRIOLE™* IT optimization strategy of business continuity, agility, and efficiency, PRIMEQUEST is the ideal solution for hosting Microsoft Windows and Red Hat or SUSE Linux 64-bit operations.

The demand for mission-critical IT services is increasing every day. Business requirements dictate that application services and the IT infrastructure that supports them are available all the time, to everyone, everywhere.

However, these availability demands struggle against increasingly rigid cost controls, despite the ever growing desire for rapid business development and new services.

These conflicting demands are best met by the Fujitsu PRIMEQUEST 520 server, where robust mission-critical hardware supports the flexible and cost-effective Microsoft Windows and Red Hat/SUSE Linux operating systems, providing an ideal blend of availability, flexibility, and scalability with reduced costs of ownership and operation in a compact rack-mounted design.

Reliability/Stability/Availability

The Fujitsu PRIMEQUEST 520 server “System Mirror” offers no single point of failure in the crossbars and memory, providing fault immunity for hosted application services. All main components are hot-swappable, and component replacement can be performed without an application halt. Robust hardware isolation of partitions and I/O connections ensure that changes are fully contained within each partition and do not effect other processes.

Flexibility/Scalability

PRIMEQUEST 520 servers allow a combination of scale-up and scale out workloads in the same system with multiple system boards and Flexible I/O resources. With up to 8 Intel® dual-core Itanium® 2 sockets hosting 16 processor cores, the PRIMEQUEST 520 server can support demanding applications.

The four partitions and separation of CPU, memory, and I/O, let you independently scale resources for multiple applications in a consolidated environment.

Asset Protection/Consolidation/Manageability

The PRIMEQUEST server family is closely aligned with the Intel Itanium Processor Family (IPF) family, adding new functionality and performance as the technology advances. The PRIMEQUEST 520 server is the Itanium 2 extension of the award-winning* PRIMEQUEST 480 server. On the software side, the support of Microsoft Windows and the enterprise Linux distributions from Red Hat and SUSE can maximize the life of your applications. With integrated redundant management processors, your complex consolidated server workload operations and administration are greatly simplified.

Fujitsu is committed to providing its customers with products, solutions and services that will further optimize their IT infrastructure and improve their business agility. Its TRIOLE strategy is the aggregate of three core principles:

- Business continuity (reliability / stability / availability)
- Business agility (flexibility / scalability)
- Business efficiency (asset protection / consolidation / manageability)

Fujitsu has applied these principles to design and deliver the PRIMEQUEST 520 server, providing the highest level of availability and performance, now and into the future.



Main features of PRIMEQUEST

- Processors: Up to 16 (on 8 Intel Itanium 2 dual-core Sockets)
- Crossbar performance: 17.3 GB/sec bi-directional per System Board, 34.1 GB/sec sustained system bandwidth.
- Memory: Maximum of 256 GB
- Partitions: Up to 4
- Flexible I/O (FIO): Balanced system configuration to optimize application performance

*The PRIMEQUEST 480 server, configured with the Intel Itanium 2 “Madison” processor, won eWeek Magazine Server of the Year award, June 19, 2006. See <https://www.excellenceawardsonline.com> for more information.

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Type		Rack-mount
CPU	Processor	Intel® Itanium® 2
	Clock speed	1.6 GHz (24 MB L3 Cache)
System	Interconnect	Point-to-point crossbar; Data transfer rate Sustained 34.1 GB/s
	System Board	Max. 2
	Main Memory	Max. 256 GB (4 GB x 64)
	Hard Disk Drives ¹	Max. 584 TB (8 x 73 GB Embedded)
Expansion slots¹		Max. 20 (PCI-X); Base Cabinet:8; Extended I/O Cabinet ⁴
Integrated I/O Interfaces	1000Base-T	Max. 4
	100Base-Tx	2
	External SCSI port	N/A
	Video (Analog RGB Dsub 15pin)	1 ³
	Serial(Dsub 9pin)	Max. 4 ²
	USB 1.1 (KB, Mouse)	2 ³
	US B2.0	Max.4 ²
	UPS (D-Sub 9pin)	2
	DVD-ROM	1 ³
	High reliability	Redundancy
Hot swap		System board, PCI card, Disk, Power supply unit, Server management processor (MMB), IOU, Gigabit Switch (GSWB), Operation panel, KVMU
Partitions		Max. 4
Installation details	Dimensions & Weights ⁴	Rack-mount chassis: Width x Depth x Height: 440 x 820 x 530 mm 12U (17.32 x 32.28 x 20.87 inches); Weight: Max. 150kg (330.69 lbs.)
	Power type	AC
	Power Requirements	Voltage: AC200-240V +/-10% Phase mode: Single Phase
	Frequency	50/60 Hz +2%,-4%
Other	OS	Red Hat Enterprise Linux AS v.4; Novell SUSE Linux Enterprise Server 9; Microsoft Windows Server 2003, Enterprise Edition for Itanium-Based Systems; Microsoft Windows Server 2003, Datacenter Edition for Itanium-Based Systems
	Other functions	Calendar function (year-month-day-hour-minute-second, Battery backup function), Automatic Power Control function (Set Power-on, Power-off by day, hour & minute)
	Note1)	Total number in Rack-mount cabinet and optional chassis
	Note2)	Required to be installed in each partition
	Note3)	Shared by all partitions
	Note4)	Base Cabinet only (not including PCI_Box of Extended I/O Cabinet)