

PRIMERGY BX630 S2 Server Blade

The PRIMERGY® BX630 S2 blades' flexibility and power efficiency are well suited to dense data center deployments.

Efficient and Powerful

The PRIMERGY BX630 S2 server blade offers excellent performance combined with the perfect balance of power efficiency and density. The PRIMERGY BX630 S2 uses dual AMD® Opteron™ processors to deliver the processing power needed to support today's increasingly virtualized server applications. Its extensive integrated connectivity and flexible upgrade options give you the I/O bandwidth necessary for demanding networked environments. An integrated Remote Management Controller (iRMC) on each blade give you direct remote control access to each blade, and enhances the level of management already offered by the management blade in the PRIMERGY BX600 chassis. The PRIMERGY BX630 S2 is also designed with a flexible, scalable architecture where two blades can be connected together with a simple upgrade kit. This allows 2 blades to be linked together into a single blade giving you easy options to scale your processing power—all based on a single architecture.

High Availability, Excellent Flexibility

The PRIMERGY BX630 server blade is a part of the PRIMERGY BX600 family of blade products which includes the PRIMERGY BX600 chassis, the PRIMERGY BX630 2 and 4 processor AMD Opteron server blade, and the PRIMERGY BX620 S4 dual Intel® Xeon™ server blade. The PRIMERGY BX600 blade chassis accommodates up to 10 dual processor, or 5 quad processor server blades. Its flexible design allows you to mix and match combinations of 2 and 4 processor blades as well as Intel Xeon and AMD Opteron based blades in the same chassis. This gives you the ability to choose the best processor count and architecture for each application. The chassis includes fully redundant and hot pluggable modules for power, cooling, I/O, and remote management for excellent availability.

The "No Compromise" Blade Server

PRIMERGY BX600 server blades offer the power of a rack mount server together with the density, power savings, and manageability of server blades. All PRIMERGY server blades support full speed processors, integrated Gigabit Ethernet, and extensive I/O expansion options. Hot plug hard drives and Integrated RAID 1 mirroring, offered on every PRIMERGY blade, guards the system against hard drive failure. Optional Fibre channel and Gigabit Ethernet upgrades provide robust bandwidth to the processing power of the server blades. A PCI slot option is also available for PRIMERGY blades, increasing their flexibility. This rich set of available options make the PRIMERGY BX600 the first platform that can truly be considered a rack server replacement for data center environments.

Well Managed Blade

Extensive blade management offerings from Fujitsu save you money by increasing uptime and automating blade deployment. Fujitsu ServerStart and RemoteDeploy make it easy to create and deploy an OS image across all the PRIMERGY blades in your environment. Management blades integrated into the chassis provide comprehensive systems management, helping to reduce the risk of downtime and to lower IT costs. The integrated diagnostics track the function of the major components in the chassis and the blades, proactively alerting you of any problems.

Quality and Reliability

Fujitsu is a worldwide leader in the Intel, Linux, and UNIX® architecture servers with industry leading reliability and extensive availability features. The close integration between Fujitsu design, manufacturing, and service engineers creates some of the highest quality products in the server market. With global support capabilities, Fujitsu offers complete solutions that will allow us to meet all your present and future needs.



The features of this blade server speak for themselves:

- 2 AMD Opteron processors, scalable to four using a connection kit
- Up to 32 GB RAM per 2 socket blade
- Dual hot plug SAS or Serial ATA hard drives
- Integrated SAS/SATA controllers supporting RAID 1 mirroring
- 4x integrated Gigabit Ethernet LAN interfaces
- I/O module upgrades add connectivity
- Integrated Remote Management Controller (iRMC) on each blade
- Up to 10 dual socket blades per PRIMERGY BX600 S3 chassis

PRIMERGY BX630 S2 Server Blade

PRIMERGY BX630 S2—Dual-Socket Server Blade



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Type		Dual-socket Server Blade
Number per BX600 System Unit		Up to 8 Server Blades in BX600 S2 chassis (this blade is not supported in slots 4 and 10) Up to 10 Server Blades in BX600 S3 chassis
System Board		D2537
	Processors	1–2x 64-bit AMD Opteron™
	Processor types	Dual-Core AMD Opteron 22xx Series processor types, Quad-Core AMD Opteron 8000 series processor types
Chipset		ServerWorks HT2100, HT1000
Main Memory		1 GB to max. 32 GB Registered 2-way interleaved ECC DDR2 667-SDRAM PC5300, 4 memory banks with module pairs of 1 / 2 / 4 / 8 GB configurable; 16 GB dedicated to each processor socket; Memory Scrubbing and SDDC (Chipkill™) Support
Flash-EPROM		BIOS update per USB floppy disk, USB CD-ROM or via LAN
Interfaces		4x Gigabit LAN port via mid-plane at GbE Switch, GbE Pass-Thru Blade or GbE IBP; 1x VGA and 2x USB at the front via special cable; connection to the KVM switch via the mid-plane; optional via mid-plane at FC Switch or Pass-Through Blade: 2x 4-Gbit Fibre Channel port or GbE Switch, Pass-Through Blade or GbE IBP: 2x 1-Gbit Ethernet port, 2x 10-Gbit Ethernet port
Onboard Controllers	SAS controller	2x active SAS channels (LSI1064E) with RAID levels 0 and 1 (hot-replace function) for 2x SAS or 2x SATA HDD
	Graphics	Integrated into iRMC
	Two LAN controllers	Each with 2x 1 Gbit/s Ethernet channels (2x Broadcom 5715S) iSCSI/iBoot support
	Server management	Integrated Remote Management Controller (iRMC)
Hard Disk Drives	Type	2.5-inch SAS or SATA hard disks (hot-plug)
	Number per Blade	1 – 2
	Capacities	SAS: 36 / 73 / 146 GB (10,000 rpm), SAS: 36 / 73 GB (15,000 rpm) SATA: 60 GB (7,200 rpm)
Dimensions/Weight	Dimensions (W x H x D) inches	11.26 x 1.70 x 16.54 (20.47 with connectors and handles), occupies one Server Blade slot in system unit
	Weight	13.23 lbs.
		Max. 388W
Power Requirements		Max. 388W
Optional 4Gbit Fibre Channel I/O Module (PCIe)	Emulex Light Pulse® LPe1150 compatible	
	Number per Server	Max. 1 (1/2/4 Gbit/s FC module); Only in combination with FC switch Blade SW4016 D4 in BX600 S3.
	Supported Storage Subsystems	Connection to several FC storage subsystems with the corresponding releases
	FC ports (internal)	2-channel 1/2/4 Gbit/s each
	Weight	~ 2.30 oz.
Optional Gigabit Ethernet I/O module (PCIe)	Number per Server	Max. 1
	Form factor	Board dimension: 4.72 x 3.54 ins.
	Core Chip	2x Broadcom 5708S
	PCI Interface	PCI-Express x 4
	I/O Interface	2 x 1 Gbit/s Ethernet (SerDes)
	Functions	TOE and iSCSI/iBoot support
	LAN ports (internal)	2-channel 1 Gbit/s each
	Weight	~ 2.92 oz.

Software

Planned Operating Systems Support	Microsoft®	Windows Server 2003 Enterprise Windows Server 2003 Enterprise x64 Edition Windows Server 2008 Standard w-w/o Hyper-V Windows Server 2008 Enterprise w-w/o Hyper-V
	RedHat	Enterprise Linux V4 Enterprise Linux V5
	SUSE	Linux Enterprise Server 9/10
	VMware	ESX Server 3.5.x
	Server Management Software	Standard
Optional		PRIMERGY RemoteDeploy, RemoteView