

Indian Buyer's Guide to Blade Servers

Vendor	Dell	Fujitsu	HP	IBM	Sun
Product	Dell PowerEdge M1000e Blade Enclosure	PRIMERGY BX600 S3 enclosure	HP BladeSystem c7000 Enclosure	IBM BladeCenter E Chassis	Sun Blade 6000 system
Number of blades per chassis	Up to sixteen half-height blade servers	Up to 10 hot-plug dual server blades per chassis	<ul style="list-style-type: none"> • Up to 16 Half-Height Blades • Up to 8 Full Height Blades • Mixed configurations supported 	Up to 14 blade server bays for packing a maximum of 84 2-processor servers	Accommodates 10 server modules supporting up to: <ul style="list-style-type: none"> • 1280 Sun UltraSPARC T2 Plus threads • 80 AMD Opteron cores • 240 Intel Xeon cores
Processor types supported	-	Dual- or Quad-Core Intel Xeon processor or AMD Opteron processor	Supports 2 socket Intel Xeon and AMD Opteron blades	Support for four blade families including Intel servers, AMD servers, POWER servers and Cell BE blades	Sun UltraSPARC T2 Plus, AMD Opteron and Intel Xeon
Form factor	10U	7U chassis for 19-inch Rack	10U chassis	7U chassis	10 Rack units high, (10U). Up to 4 Sun Blade 6000 Chassis are supported per 42U rack.
Midplane specifications	-	High speed midplane with 2 redundant fabrics	Shared, 5 terabit per second high-speed NonStop midplane	High-availability midplane	<ul style="list-style-type: none"> • PCI Express Midplane • I/O capacity: 1.42Tb/s per Chassis

<p>Network connectivity</p>	<p>Up to six total I/O modules for three redundant fabrics, featuring Ethernet FlexIO Switches providing on demand stacking and uplink scalability</p>	<p>Via 10 Gbit/s Ethernet switch blades and appropriate daughter cards. Ethernet and Fiber Channel networks can be accessed via four module options at the rear of the chassis and switches from Brocade, Cisco and Emulex.</p>	<ul style="list-style-type: none"> • Ethernet: HP 1/10Gbit Virtual Connect Ethernet Module, Virtual Connect Flex-10 Ethernet Module, HP 1Gb Ethernet Pass-Thru Module, CISCO Catalyst Blade Switch 3020, CISCO Catalyst Blade Switch 3120X/G, HP GbE2c Ethernet Blade Switch, HP GbE2c Layer 2/3 Ethernet Blade Switch, HP 1/10 Ethernet Blade Switch and HP 10/10 Ethernet Blade Switch • Fiber channel: HP 4Gbit Virtual Connect Fibre Channel Module, HP 16 port 4Gb FC Pass-Thru Module, Brocade 4Gb SAN Switch, Brocade 8Gb SAN Switch and CISCO MDS 9124e 4Gbit SAN Switch • Infiniband: HP 4X DDR IB Switch Module 	<p>Up to four hot-swap and redundant switch modules supporting Gigabit Ethernet (GbE), Fiber Channel (FC) and Serial Attached SCSI (SAS)</p>	<ul style="list-style-type: none"> • Up to 20 ExpressModules per Sun Blade 6000 Chassis <ul style="list-style-type: none"> o Sun StorageTek Dual 4Gb Fibre Channel Dual GbE ExpressModule HBA, Emulex o Sun StorageTek Dual 4Gb Fibre Channel Dual GbE ExpressModule HBA, QLogic o Sun StorageTek 4Gb Fibre Channel Dual-port ExpressModule HBA, Emulex o Sun StorageTek 4Gb Fibre Channel Dual-port ExpressModule HBA, QLogic o Sun StorageTek SAS HBA ExpressModule HBA o Gigabit Ethernet Dual-port ExpressModule - Copper (Intel® 82571EB GbE Controller-based) o Gigabit Ethernet Dual-port ExpressModule - Fiber (Intel® 82571EB GbE Controller-based) o x4 Quad GbE ExpressModules (Intel® GbE Controller-based) o Sun MT Quad GbE x8 ExpressModule (Sun Neptune) o 4x InfiniBand Dual-port ExpressModule (Mellanox MT25208 InfiniHost III Ex Controller-based) o Sun Dual-port DDR IB Host Channel Adapter ExpressModule (Mellanox ConnectX based) o 10 Gigabit Ethernet (Fiber) Dual-port ExpressModule (Sun Neptune) o EMx8 Host Express Module (Magma) • Up to 2 PCIe Network Express Modules per Sun Blade 6000 Chassis <ul style="list-style-type: none"> o Gigabit Ethernet 10-Port Passthru PCIe NEM
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Power/cooling management features	<ul style="list-style-type: none"> • Dynamic power management to set high/low power thresholds. • Real time reporting for enclosure and blade power consumption, and the ability to prioritize blade slots for power. 	Cool Safe technology and ServerView Power Manager software for power and cooling.	Yes. Power management features such as Power Capping.	Blower/fan modules in the chassis adjust to compensate for changing thermal characteristics and save power	-
Supported operating systems	-	Microsoft Windows, SUSE and RedHat Linux and VMware.	-		Solaris, Linux, and Windows operating systems
Redundant features	<ul style="list-style-type: none"> • 3 (non-redundant) or 6 (redundant) 2360 watt hot plug power supplies • 9 hot pluggable, redundant fan modules 	Redundancy for MMBs, NICs, fans and PSUs.	Power redundancy with N+N hot-plug power supplies and the flexibility of N+1 redundancy.	Redundant switches and power supplies.	1+1 PSU
Management features	Integrated KVM switch	ServerView Suite for resources management via a central management interface.	<ul style="list-style-type: none"> • Windows: Insight Control suite - 3-Phase North America, 3-Phase International and Single Phase • Linux: Insight Control suite for Linux - CTO only • CTO Software Bundles: Insight Control for Linux, Insight Control suite, Single-Phase, 3-Phase NA/JPN, 3-Phase International 	<ul style="list-style-type: none"> • IBM Remote Deployment Manager • Supports IBM Director System Availability, IBM Director Capacity Manager and IBM Director Rack Manager 	Chassis Monitoring Module (CMM)
Dimension	Height 440.5 mm (17.34") Width 447.5 mm (17.62") Depth 753.6 mm (29.67")	Height 307 mm Width 446 mm Depth 735 mm	Height 10U Width 445 mm (17.5") fits 19 inch rack Depth 813 mm (32")	-	Height 438.15 (17.25") Width 444.50 mm (17.5") Depth 692.15 mm (27.25")
Other features	-	-	-	Predictive failure analysis	-
Contact details	Tel: 1-800- 425- 4026 (toll free) +91-80-2506 8026 (standard charges apply)	Fujitsu India Pvt Ltd, 15th Floor, Bldg. No. 9A, DLF Cyber City, Phase III Gurgaon, Haryana India -122002. Tel: +91-124-470 5100 Email: fil.enquiry@in.fujitsu.com	Tel: 1-800 42 54 999 (From MTNL/ BSNL within India) OR 3030 4499 (Prefix city code when calling from mobile phone)	Tel: 1-800-425-1266 (toll free) +91-80-26788015 (standard charges apply) SMS 'IBM' to 53636	Sun Microsystems India Pvt Ltd, 6th Floor, Prestige Obelisk, No.3, Kasturba Road, Bangalore - 560 001.
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