



IBM *@server* xSeries 232



Highlights

- ***An innovative design incorporates the latest Intel® Pentium® III processors to run infrastructure applications***
- ***Superior internal scalability and availability help meet unpredictable demands of the future***
- ***Sophisticated diagnostic and management tools put you in control, to minimize downtime***
- ***Choice of rack models or towers that convert to rack give you implementation flexibility***

High performance in a versatile package

The IBM *@server* xSeries 232 gives your business the quick IT reflex it needs in a marketplace where agility is key. Its versatile design and high performance features allow you to respond quickly to surges in infrastructure demands—whether caused by 20 new employees in regional headquarters, or by rapid worldwide expansion. The x232 5U¹ chassis delivers incredible internal scalability for increasing workloads. Its innovative design also enables tower models to convert to rack-mounts, for the move to a denser computing environment when you need it. With powerful new Intel Pentium III processors and a

large memory capacity (up to 4GB²), the x232 scales easily from file-and-print serving to more sophisticated applications like e-mail, messaging, collaboration and Internet access. Ultimately, this server empowers a business to grow.

Superior internal scalability

Expansion capabilities for the x232 are extensive and flexible: you can expand the six hot-swap drive bays to nine for a total of 660.6GB storage, or add a full-height DLT tape drive for critical data protection³. Because Ethernet and SCSI are built into the systemboard, all five I/O slots are available for a wide range of I/O adapters—which means even more functionality or workload capacity.

Maximizing uptime

Intelligent management tools—such as Light Path Diagnostics™ and IBM Director software—help you pinpoint problems, maintain the server and expedite repairs before performance is affected. Hot-swap hard drives and optional redundant hot-swap power supplies let you replace these components on the fly, without disrupting operations.

Get it now

go to **ibm.com/eserver/xseries** or call 1 888 **ShopIBM** to buy direct or to locate an IBM reseller.

xSeries 232 at a glance

Models	8668-21X	8668-2RX	8668-22X	8668-2SX	8668-11X	8668-1RX
Form factor/height	Tower	Rack/5U	Tower	Rack/5U	Tower	Rack/5U
Processors (Intel Pentium III)	1.13GHz ⁴	1.13GHz	1.13GHz	1.13GHz	1.0GHz	1.0GHz
Level 2 cache (per processor)	512KB	512KB	512KB	512KB	256KB	256KB
Number of processors (std/max)	1/upgradable to 2GB					
ECC SDRAM memory (std/max)	256MB/upgradable to 4GB					
2-way memory interleaving	Yes					
I/O slots	2 64-bit/66MHz, 2 64-bit/33MHz, 1 32-bit/33MHz PCI					
PCI disk controller	Integrated dual channel Ultra160 LVD SCSI					
System Management Processor	Yes					
Internal hard disk drive (standard)	Open bay					
Bays	10 bays (6 hot-swap, 2 half-high, IDE 40X-17X ⁵ CD-ROM, 1.44MB diskette)					
Hard drive interface	Dual Ultra160 SCSI					
Internal storage (max)	660.6GB					
SCSI RAID support	Optional ServeRAID™					
Network	Integrated Ethernet 10/100					
I/O ports	2 serial, 2 USB, 1 Ethernet, 1 mouse, 1 keyboard, 1 video, 1 RS232/485 ⁶					
Power supply	385W standard	385W standard	2x250W hot-swap	2x250W hot-swap	385W standard	385W standard
Cooling fans	3					
Light Path Diagnostics	Yes					
Operating systems supported	Microsoft® Windows NT® 4.0, Windows® 2000, Novell Netware, SCO UnixWare, Linux® (Red Hat, SuSE, Caldera, TurboLinux)					
Software ⁷	IBM Director, IBM ServerGuide™, Norton Antivirus (OEM version)					
Service, support and offerings	3-year onsite limited warranty ⁸ , IBM Server Start Up Support					
Configure your xSeries 232	ibm.com/pc/us/eserver/xseries					
xSeries options	ibm.com/pc/us/eserver/xseries/storage.html					

¹A single "U", or rack unit, is 1.75" or 44.45mm.

²When referring to hard disk drive capacity, GB equals one billion bytes. Total user-accessible capacity may vary depending on operating environments. Maximum memory requires replacement of standard memory with optional maximum memory module.

³Maximum internal storage capacity assumes the replacement of any standard hard disk drives and the population of all hard disk drive bays with the largest currently supported drives available from IBM.

⁴MHz or GHz only measures microprocessor internal clock speed. Many factors affect application performance.

⁵Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

⁶These ports are a part of the integrated system management processor and function may vary depending on system management code level.

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