

xSeries 236 Type 8841 Product Spec

IBM xSeries 236
รายละเอียดสินค้า

xSeries Lineup - Servers to Meet Your Need

Enterprise Scalable Rack Servers

2-way to 16-way SMP



eServer BladeCenter



xSeries 460



xSeries 455
IA64

High Performance Computing Solutions



eServer 326
32/64-bit



xSeries 382
IA64



1350
Linux Cluster

Rack Optimized Servers

Uni to 4-way SMP



xSeries 306



xSeries 336



xSeries 346



xSeries 343
NEBs Solution



xSeries 366

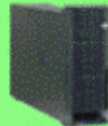


Tower Servers

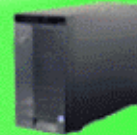
Uni to 4-way SMP



xSeries 206



xSeries 226



xSeries 236



xSeries 260



Workstations

Uni to 2-way SMP
2D - 3D Graphics



E Pro

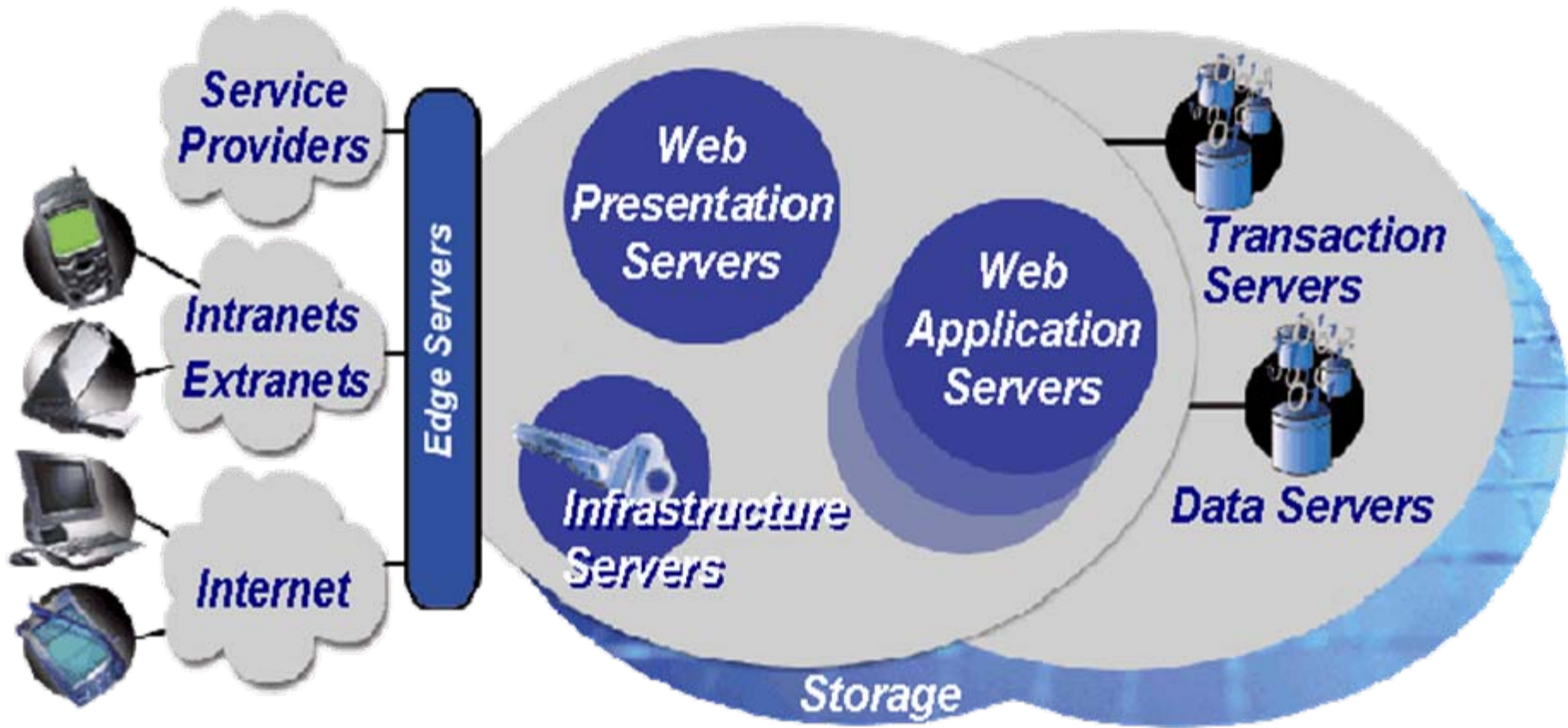


M Pro



Z Pro

IntelliStation



Mission-critical, 2-way tower server for distributed environments

IBM *e*server[®] xSeries 236



xSeries 236 at a glance

Form factor/height	5U tower with optional tower-to-rack kit
Processor (max)	Intel® Xeon™ Processor up to 3.80 GHz/800 MHz front-side bus supports Intel Extended Memory 64 Technology
Number of processors (std/max)	1/2
Cache (max)	2MB L2
Memory ¹ (max)	512MB or 1GB/16GB PC2-3200 DDR II via 8 DIMM slots
Expansion slots	6 available (1x PCI-X 133 MHz Active PCI-X, 2x PCI-X 100 MHz, 2x PCI-Express, 1x 32-bit/33 MHz)
Disk bays (total/hot-swap)	6/6 (9 bays via 3-pack option)
Maximum internal storage ^{1, 2}	2.7TB Ultra320 SCSI
Network interface	Dual Gigabit Ethernet
Power supply (std/max)	1/2 670W
Hot-swap components	Power supply, fans, disk drives and 1 Active PCI slot
RAID support	Integrated RAID-0, -1, -10, optional RAID-5

Systems management

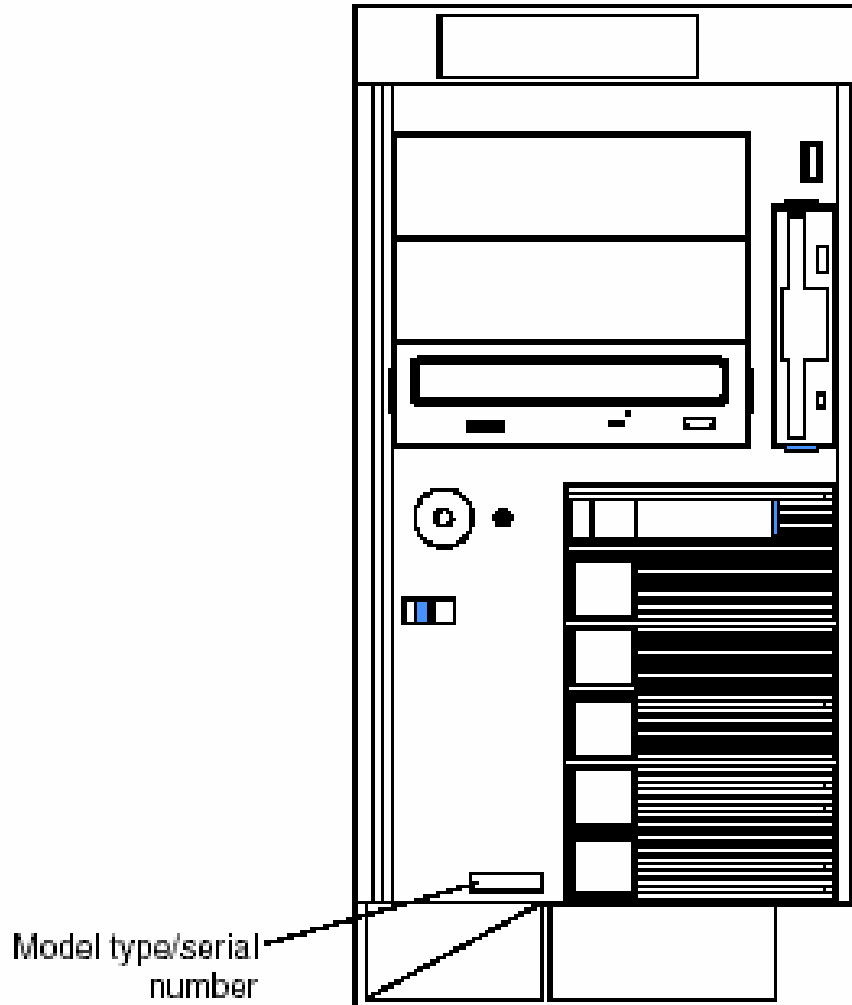
Automatic Server Restart; Predictive Failure Analysis® on hard disk drives, processors, VRMs, fans and memory; light path diagnostics with externally visible information panel; Integrated System Management Processor; optional Remote Supervisor Adapter II Slimline; IBM Director and ServerGuide™

Operating systems supported

Microsoft® Windows® Server™ 2003, Windows 2000 Server/Advanced Server, Novell Netware, Red Hat® Linux® and SUSE LINUX

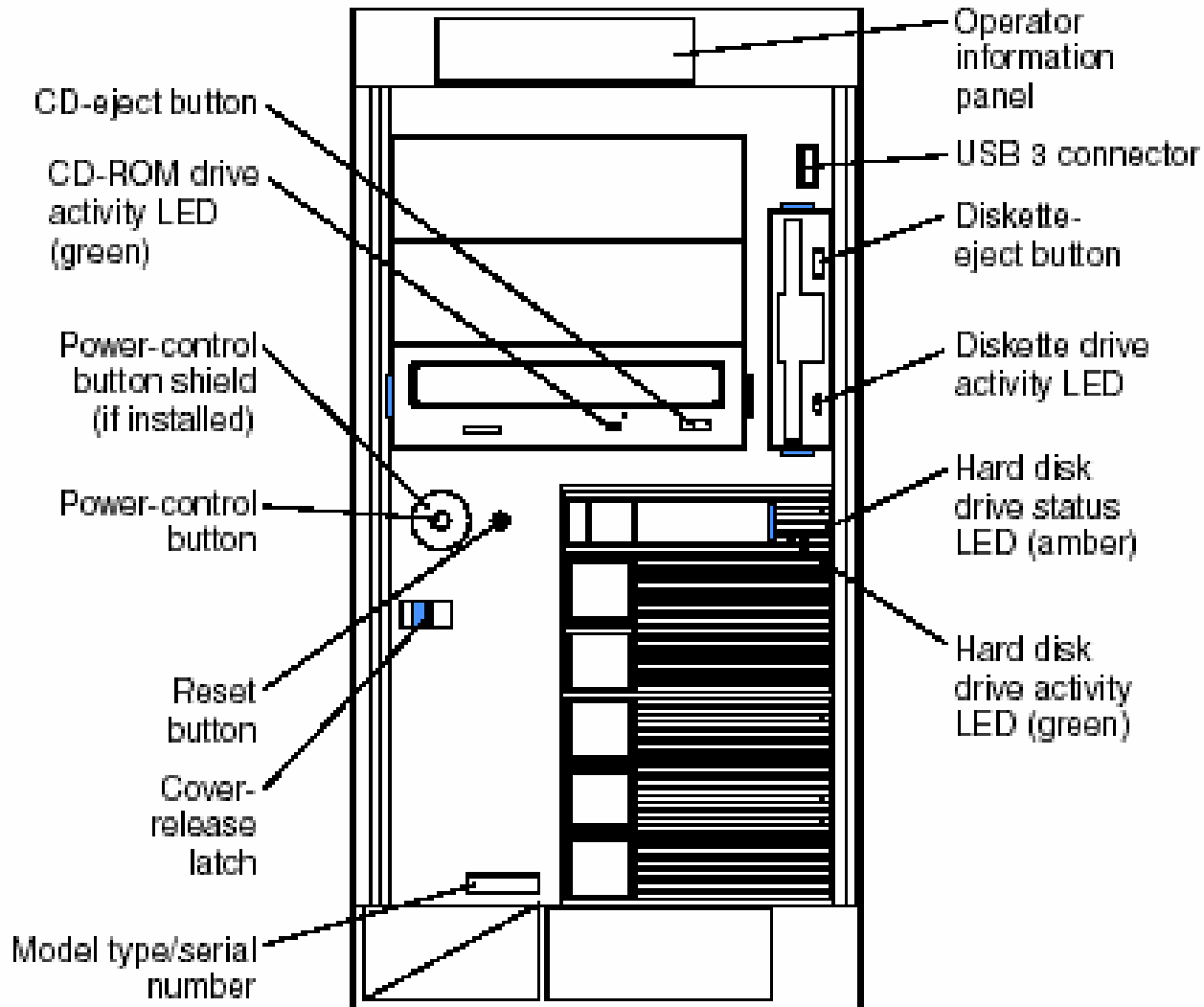
X236 รุ่น SCSI hot-swap

ดู Model Number และ Serial Number ตอนเวลาแจ้งเคลม



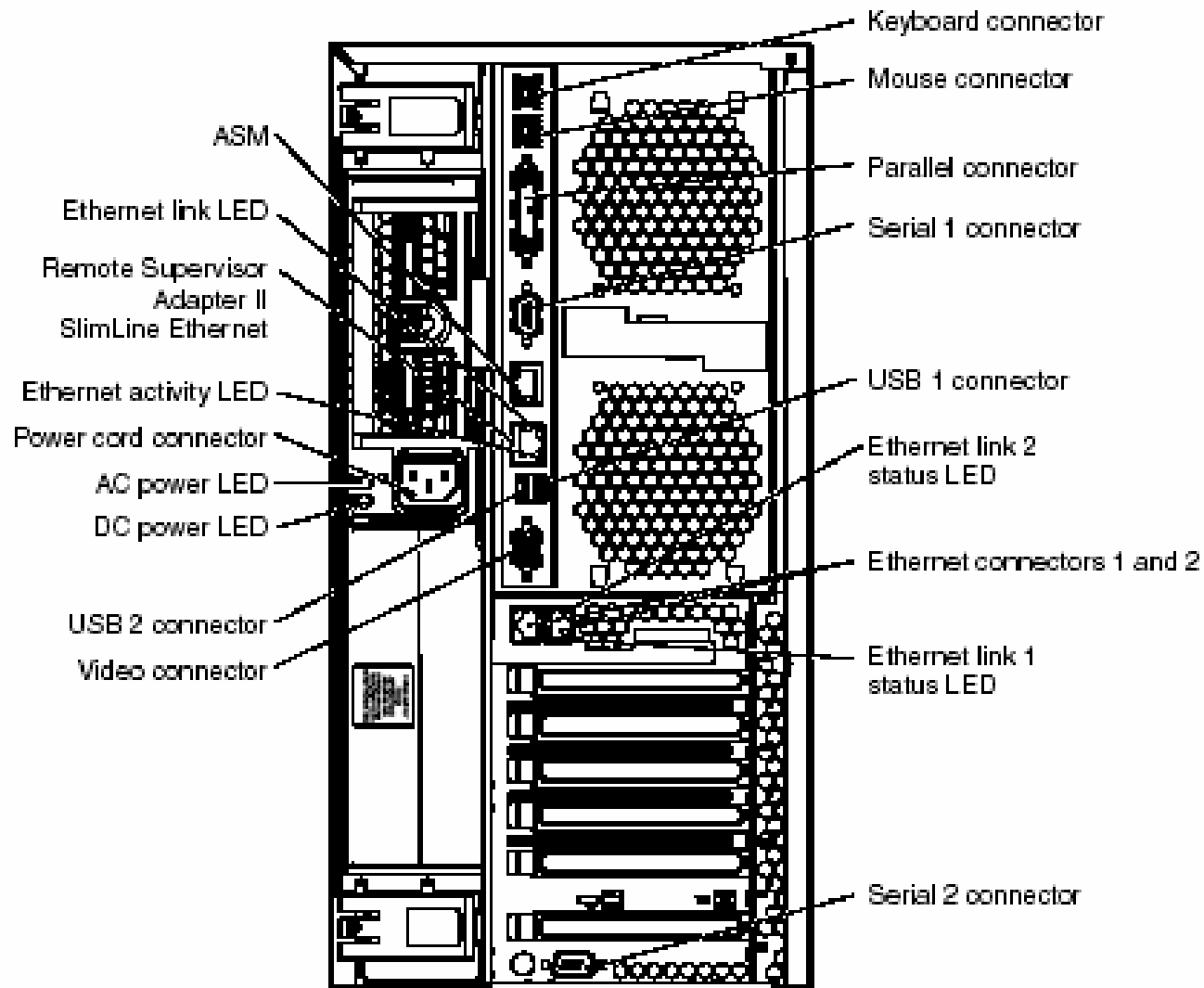
Server controls, connectors, LEDs, and power รูปด้านหน้า

Note: The front bezel door is not shown so that the drive bays are visible.



รูปด้านหลัง x236

The following illustration shows the connectors and LEDs on the rear of the server.

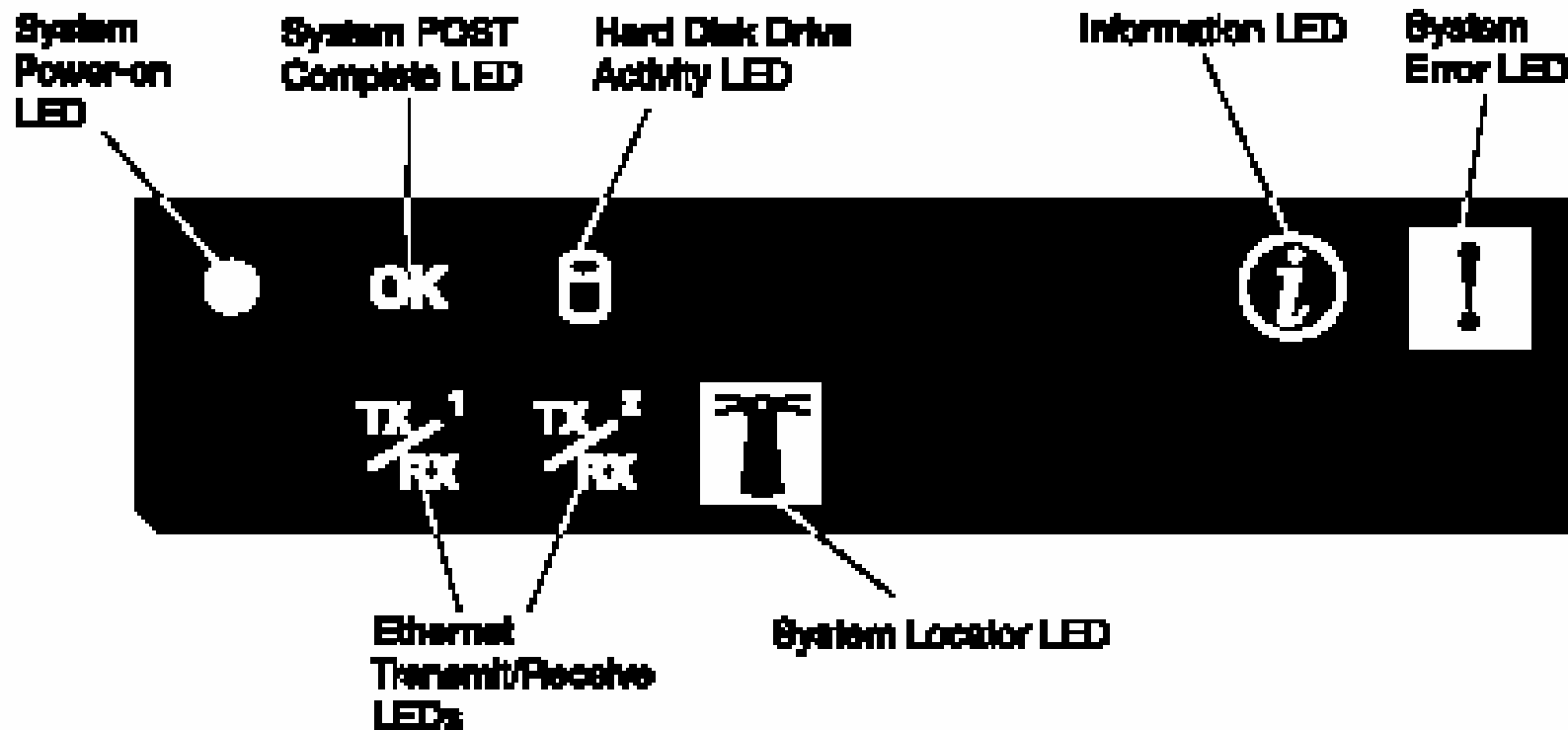


Keyboard connector: Connect a PS/2[®] keyboard to this connector.

Operator information panel

รูป Operator information panel สำหรับระบบการทำงาน

Operator information panel: This panel contains LEDs. The following illustration shows the LEDs on the operator information panel.



The following LEDs are on the operator information panel:

Light path diagnostics

รูป Light path diagnostics สำหรับวิเคราะห์อาการเสียของ Hardware

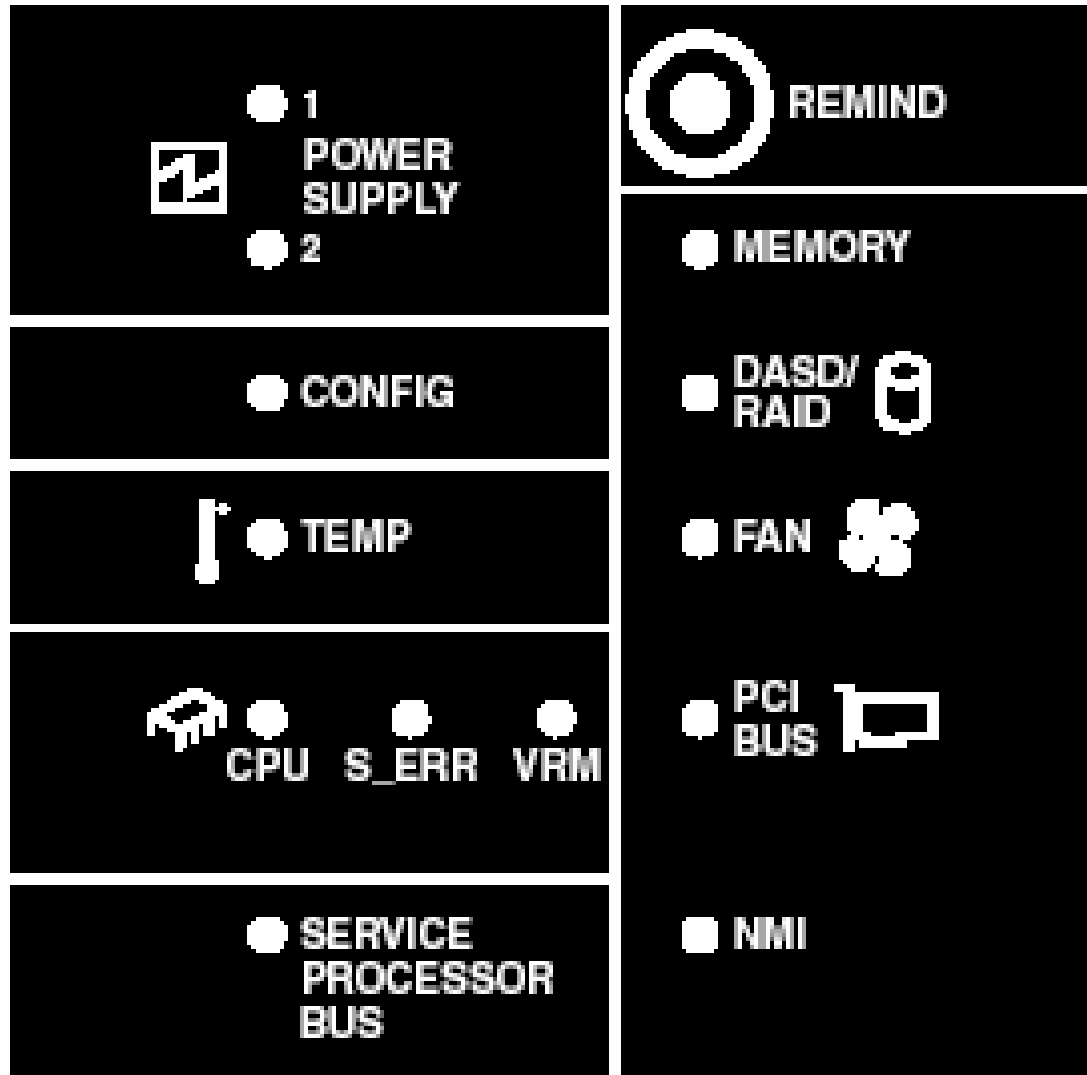


Table 1. Features and specifications

<p>Microprocessor:</p> <ul style="list-style-type: none"> • Intel® Xeon™, 2.8 GHz or higher depending on server model • 1 MB Level-2 cache • 800 MHz front-side bus (FSB) • Support for up to two microprocessors <p>Note: Use the Configuration/Setup Utility program to determine the type and speed of the microprocessor.</p> <p>Memory:</p> <ul style="list-style-type: none"> • Standard: 512 MB, or 1 GB depending on server model, expandable to 16 GB • Type: 400 MHz, registered, ECC, PC2-3200 double data rate II, SDRAM • Sizes: 256 MB, 512 MB, 1 GB, or 2 GB (when available) in pairs • Connectors: two-way interleaved, eight dual inline memory module (DIMM) connectors • Maximum: Four pairs of single-ranked PC2-3200 DDRII DIMMs <p>Drives standard:</p> <ul style="list-style-type: none"> • Diskette: 1.44 MB • CD-ROM: IDE <p>Expansion bays:</p> <ul style="list-style-type: none"> • Six open hot-swap, slim-high, 3.5-inch drive bays • Three 5.25-inch bays (CD-ROM drive installed in one bay) • One 3.5-inch removable-media drive bay (diskette drive installed) <p>PCI expansion slots:</p> <ul style="list-style-type: none"> • One Active PCI-X™ (hot-plug) 133 MHz/64-bit • Two PCI-X non-hot-plug 100 MHz/64-bit • Two PCI Express x4 non-hot-plug • One PCI non-hot-plug 33 MHz/32-bit <p>Upgradeable microcode: BIOS, diagnostics, and IBM integrated system management upgrades (when available) can update EEPROMs on the system board</p>	<p>Predictive Failure Analysis® (PFA) alerts:</p> <ul style="list-style-type: none"> • Power supplies • Fans • Memory • Hard disk drives • Microprocessors • Voltage regulator modules (VRMs) <p>Integrated functions:</p> <ul style="list-style-type: none"> • Baseboard management controller <ul style="list-style-type: none"> – Service processor with light path diagnostics – RS-485 (ASM interconnect) – RJ-45 (Ethernet 10/100 ASM interconnect) – Support for IBM Remote Supervisor Adapter II SlimLine • Dual Broadcom 5721 10/100/1000 Ethernet controllers (dual stacked RJ-45 connectors) • Two serial connectors • One parallel connector • Support for one external and one optional external or internal Ultra320 SCSI connector (dual-channel SCSI controller with RAID capabilities) • Three Universal Serial Bus (USB) v1.1 or v2.0 connectors (one on the front and two on the rear of the enclosure) • Keyboard connector • Mouse connector • ATI Radeon RV7000-M video <ul style="list-style-type: none"> – Compatible with SVGA – 16 MB video memory <p>Note: The baseboard management controller is also known as the service processor.</p> <p>Security features:</p> <ul style="list-style-type: none"> • Door lock • Power-on and administrator passwords • Remote-control security settings • Selectable drive startup • Keyboard password • System-management security <ul style="list-style-type: none"> – User login password – Read-only or read/write access – Dial-in call-back <p>Power supplies:</p> <ul style="list-style-type: none"> • Standard: One 670 watts (115-230 V ac) • Upgradeable to two hot-swap power supplies 	<p>Acoustical noise emissions:</p> <ul style="list-style-type: none"> • Without redundant fans installed <ul style="list-style-type: none"> – Sound power, idle: 5.8 bel – Sound power, operating: 5.8 bel – Bystander sound pressure, idle: 43 dBA – Bystander sound pressure, operating: 43 dBA • With optional redundant fans installed <ul style="list-style-type: none"> – Sound power, idle: 6.1 bel – Sound power, operating: 6.1 bel – Bystander sound pressure, idle: 46 dBA – Bystander sound pressure, operating: 46 dBA <p>Electrical input:</p> <ul style="list-style-type: none"> • Sine-wave input (50-60 Hz) required • Input voltage range automatically selected • Input voltage low range: <ul style="list-style-type: none"> – Minimum: 100 V ac – Maximum: 127 V ac • Input voltage high range: <ul style="list-style-type: none"> – Minimum: 200 V ac – Maximum: 240 V ac • Input kilovolt-amperes (kVA) approximately: <ul style="list-style-type: none"> – Minimum: 0.1 kVA – Maximum: 0.8 kVA <p>Heat output: Approximate heat output in British thermal units (Btu) per hour</p> <ul style="list-style-type: none"> • Minimum configuration: 341 Btu (100 watts/hour) • Maximum configuration: 2600 Btu (760 watts/hour) <p>Environment:</p> <ul style="list-style-type: none"> • Air temperature: <ul style="list-style-type: none"> – Server on: 10° to 35°C (50° to 95°F) – Altitude: 0 to 2134 m (7000 ft) – Server off: -40° to +60°C (-40° to 140°F) – Maximum altitude: 2133 m (7000 ft) • Humidity: <ul style="list-style-type: none"> – Server on: 8% to 80% – Server off: 8% to 80% <p>Size:</p> <ul style="list-style-type: none"> • Height: 440 mm (17.3 in.) • Depth: 700 mm (27.5 in.) • Width: 221 mm (8.7 in.) • Weight: 33.5 kg (74 lb) to 45.8 kg (101 lb) depending upon configuration
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