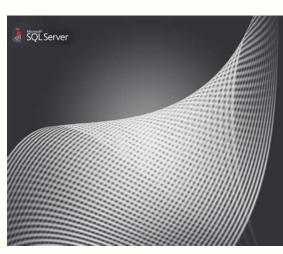
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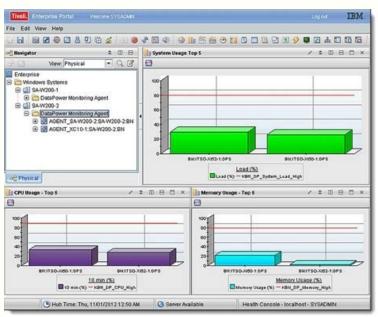
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The IBM System x3650 M3 provides outstanding performance for your mission-critical applications. Its energy-efficient design supports more cores, memory, and data capacity in a scalable 2U package that is easy to service and manage. With more computing power per watt and the latest Intel Xeon processors, you can reduce costs while maintaining speed and availability. Operating system compatibility: For the most recent information about the supported operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions and service levels, refer to the Operating system sand their specific versions are specific versions. applications. Its energy-efficient design supports more cores, memory, and data capacity in a scalable 2U package that is easy to service and manage. With more computing power per watt and the latest Intel Xeon processors, you can reduce costs while maintaining speed and availability. Suggested uses: customers requiring a highly available, energy-efficient, rack-optimized solution for physical and virtual intensive commercial environments like eBusiness/eCommerce, collaboration, virtualization, database, and enterprise resource planning applications. Figure 1. The IBM System x3650 M3 The x3650 M3 The x3650 M3 offers a flexible, scalable design and simple upgrade path to 16 HDDs or SSDs plus an optical drive, and up to 288 GB of memory. In addition, a built-in altimeter provides more efficient power utilization and lower noise levels. Comprehensive systems management tools such as advanced diagnostics, a cable management tools are advanced diagnostics, a cable management tools are advanced diagnostics. it easy to deploy, integrate, service, and manage. The challenge of a high-performance business is to do more with less—serve more Web pages, handle more secure connections, support more email users. You need to reduce the costs of doing business and improve the service you deliver to your customers while lowering your overall risk. The dualsocket IBM System x3650 M3 can reduce your costs with its new energy-smart design. It can improve service with reduced operational complexity and increased management functionality. It will lower your IT risk with the resiliency that comes from having no single point of failure. And like all IBM servers, the x3650 M3 offers you the trust that comes from IBM global reach, service, and support. The x3650 M3 is a high-performance rack server that uses significantly less power than previous generations, with unified systems management tools, leading reliability, availability, availa The x3650 M3 offers numerous features to boost performance and reduce costs: Up to two 6-core Xeon 5600 series processors offer up to 54% better performance than the previous generation 5500 series processors (workload dependent). Eighteen DIMMs of registered 1333 MHz DDR3 ECC memory provide speed, high availability, and a memory capacity of up to 288 GB. High-performance 6 Gbps SAS RAID controllers and 15K RPM 6 Gbps SAS disk drives in a variety of capacities to suit your local storage requirements. The use of solid-state drives (SSDs) instead of or along with traditional spinning drives (HDDs) can significantly improve I/O performance. An SSD can support 20,000 I/O operations per second (IOPS) whereas a typical HDD handles fewer than 500 IOPS. Flexibility and scalability The x3650 M3 has the ability to grow with your application requirements with these features: A choice of 4-core processors with clock rates from 1.6 GHz to 3.6 GHz. 18 DIMM sockets allowing memory expansion of up to 288 GB. A choice of power supplies including 460 W, 675 W AC or DC, or energy-efficient 675 W. Five or six USB 2.0 ports available - two front, two rear, one internal for an embedded hypervisor, plus one additional internal port when the optional Tape Enablement Kit is installed. Storage bay flexibility: Up to 16 hot-swap 2.5" drive bays for SAS or SATA HDDs, or solid-state drives (intermixing supported); or eight 2.5" bays plus an internal tape drive bay. Direct-attach SAS storage enclosures is supported. IBM System Storage servers, including network-attached storage (NAS), and iSCSI or Fibre Channel-attached storage, can also be attached. The x3650 M3 provides four PCI Express (PCIe) 2.0 x8 I/O slots for increased network or storage connectivity. Management features simplify local and remote management of the x3650 M3 includes an Integrated Management Module (IMM) to monitor server availability, perform Predictive Failure Analysis, and trigger IBM Systems Director alerts. An optional Virtual Media Key enables additional systems management capabilities, including web-based out-of-band remote control (keyboard video and mouse), remote optical drive support, Windows "blue screen" error capture, and support for LDAP and SSL protocols. Text Console Redirection support allows the administrator to remotely view x3650 M3 text messages over Serial or LAN connections. Integrated industry-standard Unified Extensible Firmware Interface (UEFI) next-generation BIOS. New capabilities include: Human readable event logs — no more beep codes Complete out-of-band coverage by the Advance Settings Utility to simplify remote setup A complete setup Solution, allowing adapter configuration functions to be moved into UEFI Consistent firmware management across an entire product line Integrated Trusted Platform Module (TPM) 1.2 support. Industry-standard AES NI support for faster, stronger encryption. Integrated IPMI 2.0 support alerts IBM Systems Director to anomalous environmental factors, such as voltage and thermal conditions. It also supports highly secure remote power control using data encryption. IBM Systems Director is included for proactive systems management. IBM Systems Director comes with a portfolio of tools, including IBM Systems Director Active Energy Manager, and others. IBM Systems Director also offers extended systems Director a pager, and other methods. IBM Systems Director Active Energy Manager provides advanced power management features with actual real-time energy monitoring, reporting, and capping features to simplify serviceability and increase system uptime: The x3650 M3 servers offer Chipkill ECC memory protection (when using x4 DIMMs). Chipkill memory is up to 16 times better than standard ECC memory at correctable memory errors. This can help reduce downtime caused by memory errors. The x3650 M3 offers memory memory errors. provides easy access to upgrades and serviceable parts, such as HDDs and memory. Similarly, the Virtual Media Key and the ServeRAID controller can be installed and replaced without tools. This means less time (and therefore less money) spent servicing the x3650 M3. The server offers hot-swap and redundant fan modules and power supplies and hot-swap disk drives (redundant when implemented in conjunction with a RAID controller). These features mean greater system uptime. Toolless slides ship with the server, together with a cable management arm (CMA), that allow the rack server to easily slide into place. The drop-down light path diagnostics panel and individual light path LEDs quickly lead the technician to failed (or failing) components. This simplifies servicing, speeds up problem resolution, and helps improve system availability. Solid-state drives (SSDs) offer 2.5 times the MTBF rate (2,500,000 hrs) of HDDs, for greater uptime. The three-year (parts and labor) limited onsite warranty provides peace of mind and greater investment protection than a one-year warranty does. Energy efficiency The System x3650 M3 has an energy-efficient design with features including the following: Low-voltage processors, thus helping to reduce data center energy costs. Available 4-core Xeon 5600 series processors use only 40 W and 6-core processors consume as little as 60 W. Optional solid-state drives (SSDs) use only 2 W of power per drive, compared to 9 - 10 W for 2.5-inch HDDs. This is as much as 80% less power than a 2.5-inch HDDs would use, with a corresponding reduction in heat output that further improves the overall bottom line. Support for 1.35 V low-voltage DDR3 memory DIMMs that consume 20% less energy. Energy-efficient components, including low-voltage transistors and voltage regulator modules, and power supplies that are up to 90% efficient. The x3650 M3 uses hexagonal ventilation holes in the chassis. Hexagonal holes can be grouped more densely than round holes, providing more efficient airflow through the system chassis. This ultimately results in reduced operational costs. An altimeter works in conjunction with the IMM to govern fan rotation based on the readings that it delivers. This saves money under normal conditions because the fans do not have to spin at high speed. Figure 2 shows the front of the server. Figure 2. Front view of the IBM System x3650 M3 Figure 3 shows the rear of the server. Figure 4. Inside view of the IBM System x3650 M3 Figure 4 shows the locations of key components inside the server. Figure 4. Inside view of the IBM System x3650 M3 Figure 5 shows the rear of the server. Effective October 12, 2012, or until supply is depleted, IBM Systems Director Standard Edition, which include software subscription and support, continue to be available for IBM System x servers and IBM Blade Centers. The x3650 M3 servers are shipped with the following items: Statement of Limited Warranty Important Notices Rack Installation Instructions Documentation CD that contains the Installation and User's Guide IBM Gen 2 Slides Kit IBM Gen 3 Slides K models with one power supply and two for models. Table 2. Standard models \* Processor detail: Processo following table lists the models that include SAP Discovery System v4 preloaded with SUSE Linux ES SAP Business All-in-one. Table 3. Standard preload models \* Processor detail: Processor detai Business All-in-one. Refer to the Specifications section for information about standard features of the server. Table 4. Express models \* Processor detail: platform architecture that provides high-speed (up to 25.6 GBps), and point-to-point connections both between processors and the I/O hub. Each processor has its own dedicated memory that it accesses directly through an Integrated Memory Controller. In cases where a processor needs to access the dedicated memory of another processor, it can do so through the high-speed QPI that links all the processors. Turbo Boost Technology dynamically turns off unused processors or 400 MHz) as long as the processors' predetermined thermal and electrical requirements are still met. For example, with three cores at 2.53 GHz. All Xeon 5600 processors support Turbo Boost with the exception of L5609, E5606, and E5603. Intel Hyper-Threading Technology, which boosts performance for multi-threading reduces computational latency, thereby making optimal use of every clock cycle. All Xeon 5600 processors support Hyper-Threading Technology with the exception of L5609, E5607, E5606, and E5603. Intelligent Power Capability powers individual processor elements on and off as needed, to reduce power draw. Execute Disable Bit functionality can help prevent certain classes of malicious buffer overflow attacks when combined with a supporting operating system. Intel Virtualization Technology integrates hardware-level virtualization hooks that allow operating system vendors to better utilize the hardware for virtualization workloads. The x3650 M3 supports the processor standard. If there is no corresponding where-used model for a particular processor then this processor is only available through CTO. In the x3650 M3, two processors are standard and the server supports two maximum. Table 5. Processor options IBM DDR3 memory is compatibility tested and tuned for optimal System x performance and throughput. IBM memory specifications are integrated into the light path diagnostics for immediate system performance feedback and optimum system uptime. From a service and support worldwide. The IBM System x3650 M3 supports up to nine DDR3 DIMMs when one processor is installed and up to 18 DIMMs when two processors are installed. However, the maximum of 288 GB (18x 16 GB) Up to 18 dual-rank RDIMMs for a maximum of 288 GB (18x 16 GB) Up to 12 quad-rank RDIMMs for a maximum of 192 GB (12x 16 GB) UDIMMs up to 12 dual-rank UDIMMs for a maximum of 48 GB (12x 4 GB) Each processor has three memory channel. RDIMMs per channel. RDIMMs per channel. That is, you can have up to 18 RDIMMs installed in the server, but only up to 12 UDIMMs. Mixing UDIMMs and RDIMMs installed (whichever has a lower memory speed rating), as follows: Intel Xeon 5600 series processors: 1333 MHz when one or two single-rank or dual-rank RDIMMs per channel is installed or one UDIMMs per channel is installed or two UDIMMs per channel are installed 800 MHz when three single-rank or dual-rank RDIMMs or two quad-rank RDIMMs per channel are installed The server supports both 1.5 V and 1.35 V DIMMs. Mixing 1.5 V and 1.35 V DIMMs, Mixing 1.5 V and 1.35 V DIMMs, The following memory protection technologies are supported: ECC ChipKill (for x4-based RDIMMs) Memory mirroring is used then DIMMs must be installed in pairs (minimum of one pair per each CPU), and both DIMMs in a pair must be installed in sets of three, and all DIMMs in the same set must be identical in type and size. Memory options available for x3650 M3 server. Table 6. Memory options available for x3650 M3 server supports the following internal storage configurations: Four SATA 2.5" SFF Simple-Swap drive bays (only available in CTO) Four SAS/SATA 2.5" SFF hot-swap drive bays Eight SAS/SATA 2.5" SFF hot-swap M3 ship with four (model A2x) or eight (all models except A2x) SAS/SATA 2.5" SFF hot-swap hard drive bays. The following table for x3650 M3 server. Table 7. Internal storage expansion options available for x3650 M3 server. to eight hot-swap HDD bays. This option requires a ServeRAID M1015, M5014, or M5015. 59Y3825 upgrades models with eight hot-swap HDD bays to 16 hot-swap HDD bays. This option includes a SAS expander card that fits into a dedicated RAID slots, and RAID controller occupies one of the four PCIe slots, limiting the number of available slots to three. 69Y5034 upgrades models with eight hot-swap HDD bays to 16 hot-swap HDD RDX). This includes the riser card with USB and SAS tape connectors, replacing the standard SAS RAID riser card. The following table lists the RAID controllers for internal storage \* Withdrawn from marketing \*\* When this RAID controller is ordered separately, then the maximum quantity supported is one. When this RAID controller is ordered as a part of the 69Y5034 upgrade (see Table 6), then the maximum quantity supported is two. † Only one key is supported in each controller, either the Advance Feature Key or the Performance Accelerator Key. When the maximum number of HDD bays is eight, the RAID controller occupies a dedicated PCIe slot on x3650 M3 and does not consume the regular PCIe slots is three. The ServeRAID BR10il v2 SAS/SATA Controller has the following specifications: One Mini-SAS internal connector Supports RAID levels 0, 1, and 1E 3 Gbps throughput per port Based on the LSI 1064E controller PCI Express 2.0 x4 host interface Stripe size: 64 KB (fixed) The ServeRAID M1015 SAS/SATA Controller has the following specifications: Two Mini-SAS internal connectors Supports RAID levels 5 and 50 with optional ServeRAID M1000 Series Advanced Feature Key 6 Gbps throughput per port Based on the LSI SAS2008 6 Gbps RAID on Chip (ROC) controller PCI Express 2.0 x8 host interface Configurable stripe size up to 64 KB The ServeRAID M5014 SAS/SATA Controller has the following specifications: Two Mini-SAS internal connectors Supports RAID levels 0, 1, 5, 10, and 50 Supports RAID 6 and 60 with the optional M5000 Advanced Feature Key Performance optimization for SSD drives with optional M5000 Series Performance Accelerator Key 6 Gbps throughput per port PCI Express 2.0 x8 host interface Based on the LSI SAS2108 6 Gbps ROC controller 256 MB of onboard cache Optional Intelligent Li-Ion-based battery backup unit with the ServeRAID M5000 Series Battery Kit The ServeRAID M5015 SAS/SATA Controller has the following specifications: Two Mini-SAS internal connectors Supports RAID levels 0, 1, 5, 10, and 50 Supp Performance Accelerator Key 6 Gbps throughput per port PCI Express 2.0 x8 host interface Based on the LSI SAS2108 6 Gbps ROC controller 512 MB of onboard cache Standard Intelligent Li-Ion-based battery backup unit with up to 48 hours of data retention The ServeRAID B5015 SSD Controller has the following specifications: Two Mini-SAS internal connectors Supports RAID levels 1 and 5 6 Gbps throughput per SAS port PCI Express 2.0 x8 host interface Based on PMC-Sierra PM8013 maxSAS 6 Gb/s SAS RoC controller Performance optimized for SSDs Stripe size of up to 1 MB For more information, see the list of IBM Redbooks® Product Guides in the RAID adapters category: The following table lists hard drive options for internal disk storage of x3650 M3 server. Table 9. Disk drive options for internal disk storage For information about self-encrypting drives (SEDs), see the IBM Redbooks Product Guide Self-Encrypting Drives for IBM System x, available from: For a discussion about drive interface technology, available from The server supports the internal tape drive options listed in the following table. The x3650 M3 Tape Enablement Kit, 59Y3806, is required to support these tapes internally, 59Y3806 upgrades models with eight hot-swap HDD bays to support an internal tape drive (DDS5, DDS6, or RDX). This option includes the riser card with USB and SAS tape connectors, replacing the standard SAS RAID riser card. Table 10. Internal tape drives For more information, see the list of IBM Redbooks Product Guides in the Backup units category: The server supports the optical drive options listed in the following media and speeds for reading: CD-ROM 24X CD-DA (DAE) 20X CD-R 24X CD-RW 24X DVD-ROM (single layer) 8X DVD-ROM (dual layer) 8X DVD-ROM (46M0901). This drive also supports the same media and speeds for reading as DVD-ROM (46M0901). This drive also supports the following media and speeds for writing: CD-R 24X CD-RW 4X High Speed CD-RW 10X Ultra Speed CD-RW 16X DVD+R 8X DVD+R BX DVD+R BX DVD-R BX D system planar (one riser socket supports installation of one riser card). The slot form factors are as follows: Slot 1: Full height, full length Slot 2: Low profile with standard bracket Slot 3: Full height, full length Slot 2: Low profile with standard bracket Slot 3: Full height, full length Slot 2: Low profile with standard bracket Slot 3: Full height, full length Slot 4: Full height, full length Slot 3: Full height, full that provide a total of four PCI Express 2.0 x8 slots (two PCI Express x8 Gen 2 slots per riser card). You can replace each standard riser with one PCI Express x16 Gen 2 slots Riser with one PCI Express x16 Gen 2 slots per riser card). The following table lists the PCI riser card options. Table 12. PCI riser card options \* These options are CTO only The server has an additional PCI Express slot dedicated to the RAID controller. x3650 M3 supports up to four integrated Gigabit Ethernet ports. Two ports are standard, and two ports can be added by installing the optional Dual-port Gigabit Ethernet Daughter card, 46M1076. This card uses a dedicated connector on the motherboard and does not consume a PCI expansion slot. Integrated NICs have the following features: Broadcom BCM5709 chip TCP Offload Engine (TOE) support Wake on LAN support 802.1Q VLAN tagging support NIC Teaming (load balancing and failover) Table 13. Network adapters \* Withdrawn from marketing For more information, see the list of IBM Redbooks Product Guides in the Networking adapters \* Withdrawn from marketing For more information, see the list of IBM Redbooks Product Guides in the Host bus adapters category: The server supports the High IOPS SSD adapters with one or two power supplies (model dependent). -48V DC models are only available through CTO. The following table lists the power supply ships standard with one 2.8 m C13 - C14 power supply ships without power supply ships without power supply ships standard with one 2.8 m C13 - C14 power supply ships standard with one 2.8 m C13 - C14 power supply ships without power supply ships standard with one 2.8 m C13 - C14 power supply ships without power supply ships without power supply ships standard with one 2.8 m C13 - C14 power supply ships without power suppl memory key. The key is installed in a USB socket inside the server contains IBM Integrated Management Module (IMM), which provides advanced service-processor control, monitoring, and an alerting function. If an environmental condition exceeds a threshold or if a system component fails, the IMM also provides a virtual presence capability for remote server management capabilities. The IMM provides remote server management through industry-standard interfaces: Intelligent Platform Management Interface (IPMI) Version 2.0 Simple Network Management Protocol (SNMP) Version 3 Common Information Model (CIM) Web browser The optional virtual media key is required to enable the remote presence and blue-screen capture features. The remote presence feature provides the following functions: Remotely viewing video with graphics resolutions up to 1280x1024 at 75 Hz, regardless of the system state Remotely accessing the server using the keyboard and mouse from a remote client, and mapping ISO and diskette image files as virtual drives that are available for use by the server Uploading a diskette image to the IMM memory and mapping it to the server as a virtual drive The blue-screen capture feature captures the video display contents before the IMM memory and mapping it to the server when the IMM detects an operating-system hang condition. A system administrator can use the blue-screen capture to assist in determining the cause of the hang condition. The following operating systems: Microsoft Windows HPC Server 2008 Microsoft Windows Server 2003 R2 x64 Datacenter Edition Unlimited Virtualization Microsoft Windows HPC Server 2008 Microsoft Windows Mic Server 2003, Web Edition Microsoft Windows Server 2003/2003 R2, Enterprise x64 Edition Microsoft Windows Server 2003/2003 R2, Enterprise Edition Microsoft Windows Server 2003/2003 R2, Enterprise Edition Microsoft Windows Server 2003/2003 R2, Enterprise x64 Edition Microsoft Windows Server 2003/2003 R2, Enterprise Edition Microsoft Windows Server 2003/2003 R2, Enterprise x64 Edition Microsoft Windows Server 2003/2003 R2, Enterprise Edition Microsoft Windows Server 2003/2003 R2, Enterprise x64 Microsoft Windows Server 2008, Datacenter x86 Edition Microsoft Windows Server 2008, Enterprise x86 Ed Standard x86 Edition Microsoft Windows Server 2008, Web x64 Edition Microsoft Windows Server 2003/2003 R2 Premium Edition Microsoft Windows Server 2012 R2 Microsoft Windows Small Business Server 2008 Premium Edition Microsoft Windows Small Business Server 2008 Premium Microsoft Windows Small Business Server 2008 Premiu AMD64/EM64T Red Hat Enterprise Linux 5 Server x64 Edition Red Hat Enterprise Linux 5 Server Edition Red Hat Enterprise Linux 5 Server with Xen x64 Edition Red Hat Enterprise Li Enterprise MRG 2.0 Realtime (x64) Solaris 10 Operating System SUSE LINUX Enterprise Server 10 for x86 SUSE LINUX Enterprise Se Enterprise Server 11 for x86 SUSE LINUX Enterprise Server 11 with Xen for AMD64/EM64T VMware ESX 4.0 VMware ESX 4.1 VMware ESX service levels supported and any other prerequisites: Dimensions and weight: Height: 85 mm (3.36 in) Width: 443 mm (17.5 in) Depth: 698 mm (27.5 in) Weight: Minimum configuration: 21.1 kg (46.5 lb) Maximum configuration: 21.1 kg (46.5 lb) Max Decrease system temperature by 0.75° C for every 1,000-foot increase in altitude. Server off: 5 to 45° C (41 to 113° F) Humidity Server on: 20 to 80%; maximum dew point 27° C Electrical Models with 675 W power supplies: 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 7.8 A 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.8 A Input kilovolt-amperes (kVA) (approximately): Minimum configuration: 0.78 kVA Models with 460 W power supplies: 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 3.8 A Input kilovolt-amperes (kVA) (approximately): Minimum configuration: 0.78 kVA Models with 460 W power supplies: 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.8 A Input kilovolt-amperes (kVA) (approximately): Minimum configuration: 0.78 kVA Models with 460 W power supplies: 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 3.8 A Input kilovolt-amperes (kVA) (approximately): Minimum configuration: 0.78 kVA Models with 460 W power supplies: 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.8 A Input kilovolt-amperes (kVA) (approximately): Minimum configuration: 0.78 kVA Models with 460 W power supplies: 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.8 A Input kilovolt-amperes (kVA) (approximately): Minimum configuration: 0.78 kVA Models with 460 W power supplies: 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 5.3 A 200 to 127 (nominal) V ac; 50 Hz or 60 Hz; 50 Hz or 60 Hz kilovolt-amperes (kVA) (approximately): Minimum configuration: 0.12 kVA Maximum configuration: 0.53 kVA BTU output Minimum configuration: 0.50 Btu/hr (90 watts) Maximum configuration: 0.50 Btu/hr (780 watts) Noise level 6.5 bels (operating) 6.3 bels (idle) The IBM System x3650 M3 has a 3-year onsite warranty with 9x5/next business day terms. IBM offers the warranty service upgrades through IBM ServicePacs, discussed in this section. The IBM ServicePacs is a series of prepackaged warranty maintenance upgrades and post-warranty maintenance upgrades and post-warranty maintenance upgrades and service agreements terms. and conditions. IBM ServicePac offerings are country-specific, that is, each country might have its own service levels, response times, and terms and conditions. Not all covered types of ServicePacs might be available in a particular country. For more information about IBM ServicePac offerings available in your country visit the IBM ServicePac Product Selector at: The following table explains warranty service definitions in more detail. Table 19. Warranty service definitions in more detail. Table 19. Warranty and maintenance service upgrades One, 2, 3, 4, or 5 years of 9x5 or 24x7 service coverage Onsite repair from next business day to 4 or 2

hours One or 2 years of warranty extension Remote technical support for System x servers Software support for System x servers Software support for System x servers Software support for System x servers Remote technical support for System x servers Remote technical support for System x servers Software support for System x servers Remote technical support for System x servers Software support for System x servers Remote technical su Systems Director The server conforms to the following international standards: FCC - Verified to comply with Part 15 of the FCC Rules, Class A UL/IEC 60950-1 CSA C22.2 No. 69950-1-03 NOM-019 Argentina IEC60950-1 Japan VCCI, Class A Australia/New Zealand AS/NZS CISPR 22:2006, Class A IEC-60950-1:2001 (CB Certificate and CB Test Report) Taiwan BSMI CNS 13438, Class A; CNS 14336 China CCC (4943-2001), GB 9254-2008 Class A, GB 17625.1:2003 Korea KN22, Class A; KN24 Russia/GOST R 51318.22-99, GOST R 51318.24-99, GOST R 51317.3.2-2006, GOST R 51317.3.3-99 IEC 60950-1 (CB Certificate and CB Test Report) CE Mark (EN55022 Class A, EN60950-1, EN55024, EN61000-3-2), EN61000-3-2, EN61000-3-2, EN61000-3-3) CISPR 22, Class A TUV-GS (EN60950-1, IEC60950-1, EK1-ITB2000) The external disk storage expansion enclosures listed in the following table are supported with external expansion enclosures. Table 21. Hard drive options for external expansion enclosures. Table 22. RAID controllers for external expansion enclosures. Table 21. Hard drive options for external expansion enclosures. Feature Key or the Performance Accelerator Key. The ServeRAID M5025 SAS/SATA Controller has the following specifications: Two Mini-SAS external connectors Supports RAID levels 0, 1, 5, 10, and 50 Suppo Performance Accelerator Key 6 Gbps throughput per port PCI Express 2.0 x8 host interface Based on the LSI SAS2108 6 Gbps ROC controller 512 MB of onboard cache Intelligent Li-Ion-based battery backup unit with up to 48 hours of data retention Supports connectivity to the EXP3000, EXP2512, and EXP2524 storage expansion enclosures For more information, see the IBM Redbooks Product Guide ServeRAID M5025 SAS/SATA Controller for IBM System x: The external SAS cables listed in the following table are supported with external expansion enclosures \* Note: The EXP3000 and EX2500 series can be chained with each other. In such a case, one cable is used to connect first EXP25xx or EXP3000 to the RAID controller, and every consecutive EXP unit is connected to previous one by one cable. The following table lists the external storage systems that are supported by the server and can be ordered through System x sales channel. The server may support other IBM disk systems that are not listed in this table. Refer to IBM Systems For more information, see the list of IBM Redbooks Product Guides in the Storage Systems category: The server supports the external backup attachment options listed in the following table. Table 25. External backup options \* Note: The external tape drives listed can be ordered through System x sales channel. Server may support other IBM tape drives that are not listed in this table. Refer to IBM System Storage Interoperability Center for further information. † Note: These part numbers are the tape drives options for 35732UL and 35732UL and 35734UL. For more information, see the list of IBM Redbooks Product Guides in the Backup units category: The server supports the top-of-rack Ethernet switches from IBM System Networking listed in the following table. the list of IBM Redbooks Product Guides in the Top-of-rack switches category: The server supports attachments to the uninterruptible power supply units For more information, see the list of IBM Redbooks Product Guides in the Power infrastructure category: The server supports attachments to the power distribution units (PDUs) listed in the following table. Table 28. Power distribution units For more information, see the list of IBM Redbooks Product Guides in the Rack cabinets and options category: The server supports the rack console switches and monitor kits listed in the Rack cabinets and options category: IBM Global Financing can help you obtain the IT solution you need while preserving funding for other strategic investments and optimizing cash flow. Our Fair Market Value (FMV) lease helps ensure that you have the latest IBM technology and with our mid-lease upgrade capability, you can increase the capacity of the system with little to no change in monthly payments. At the end of the lease, take advantage of our flexible end-of-lease options to fit your changing business needs. IBM Global Financing and asset management strategy that provides you the opportunity to leverage new technologies and turn your ambitious vision into a tangible solution. Here are some other reasons why working with us makes solid financial sense: Expand your purchasing power—Affordable monthly payments allow you to change the technology acquisition discussion from "what can I afford right now" to "what solution is really right for my business." IBM Global Financing allows you to expand your purchase power to get you the right solution. Accelerate your project's cash flow break-even point—Acquire your IBM technology today and begin to realize its benefits now. An FMV lease can help you get the solution you need now, with low monthly payments that better align upfront costs with the anticipated return on investment from the technology. Easy to acquire with affordable rates—We offer one-stop shopping for a total IT solution, so you can acquire IBM hardware, services and the financing you need—from one IT provider, with an asset base of US\$35.8 billion and over 125,000 customers, IBM Global Financing operates in more than 50 countries. Go to for financing operates in your country and to contact a local financing specialist. IBM Global Financing offerings are provided through IBM Credit LLC in the United States and divisions worldwide to qualified commercial and government clients. Rates and divisions worldwide to qualified commercial and government and product type and options, and may vary by country. 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