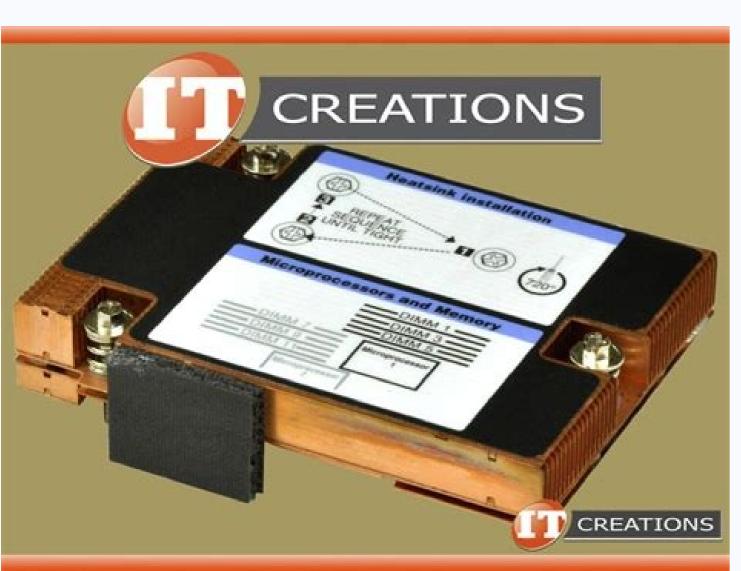
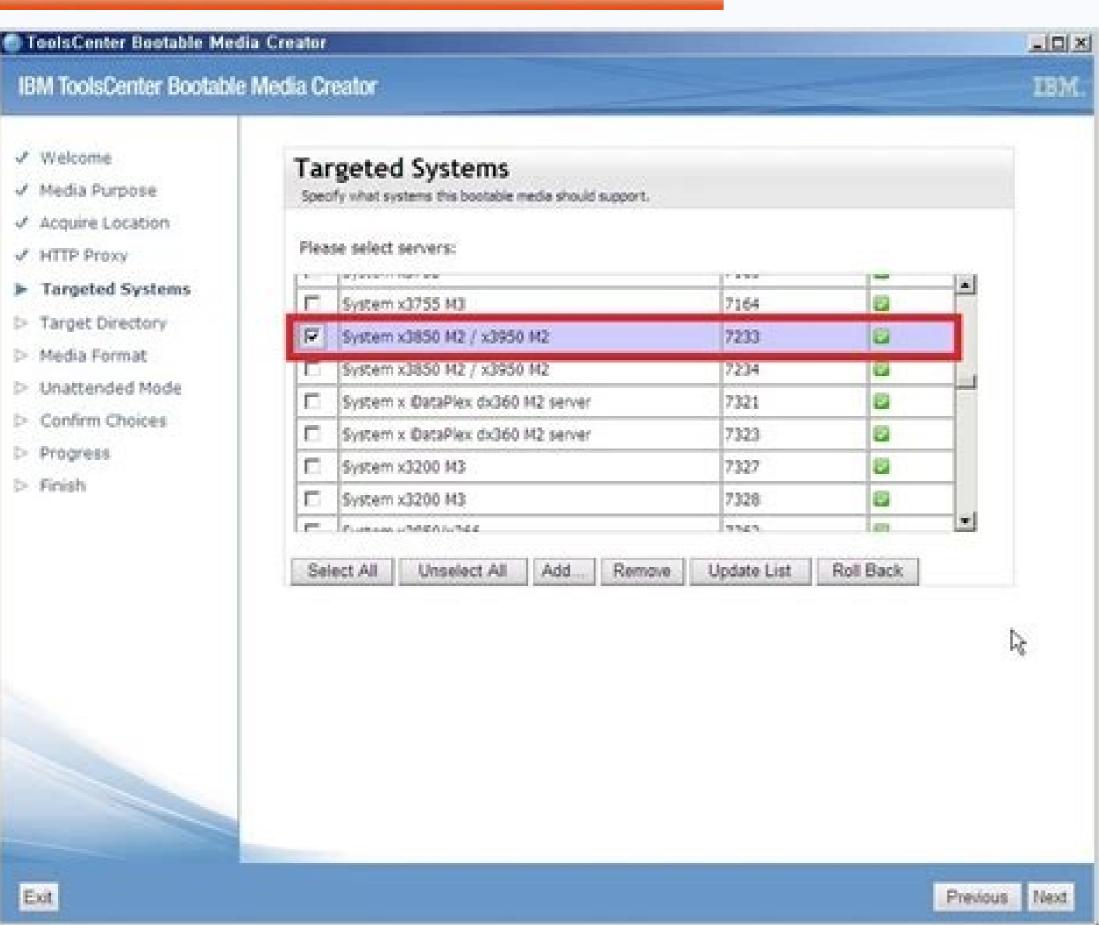
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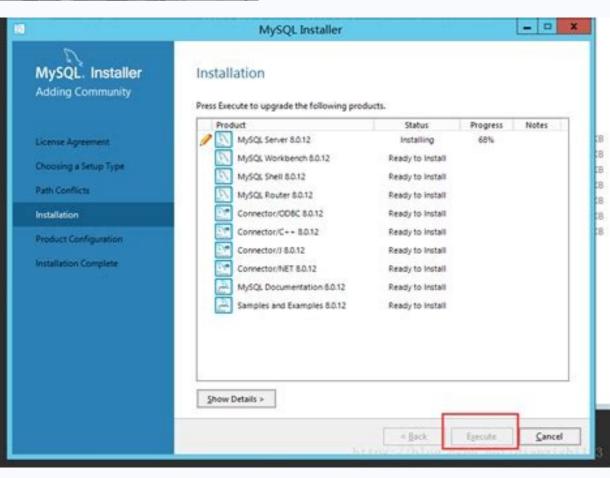
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IBM Systems Director Express Edition and IBM Systems Director Standard Edition, which include software subscription and support, continue to be available for IBM System x servers and IBM Systems Director Standard Edition, which include software subscription and support, continue to be available for IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition, which include software subscription and IBM Systems Director Standard Edition and 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. Optical drives IBM UltraSlim Enhanced SATA DVD-ROM (part number 46M0901) supports the following media and speeds for reading: CD-ROM (4.7 GB) 6X DVD-R DL 4X D GB) 4X IBM UltraSlim Enhanced SATA Multi-Burner (46M0902) supports the same media and speeds for reading as DVD-ROM (46M0901). IBM Systems Director Active Energy Manager provides advanced power management features with actual real-time energy monitoring, reporting, and capping features. Standard models have two riser cards installed that provide a total of four PCI Express 2.0 x8 slots (two PCI Express x8 Gen 2 slots per riser card). As the world's largest IT financing provider, with an asset base of US\$35.8 billion and over 125,000 customers, IBM Global Financing offers highly competitive rates that promote low total cost of ownership and low monthly payments. Table 12. If Memory Sparing is used then DIMMs must be installed in sets of three, and all DIMMs in the same set must be identical in type and size. Table 7. The x3650 M3 uses hexagonal ventilation holes in the chassis. Disk drive options for internal disk storage For information about solid state drives, see the IBM Redbooks Product Guide Solid State Drives for IBM BladeCenter and System x servers, available from: For a discussion about drive interface technology include SAS and SATA, see the IBM Redpaper, IBM System x Server Disk Drives for IBM System x Se Interface Technology, available from The server supports the internal tape drive options listed in the following table. 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. A system administrator can use the blue-screen capture to assist in determining the cause of the hang condition. Memory sparing is only supported for Intel Xeon 5600 series processor-based systems. The server supports up to two processors. Not all covered types of ServicePacs might be available in a particular country. This option includes two ServeRAID M5015 RAID controllers (without batteries). High-performance 6 Gbps SAS disk drives in a variety of capacities to suit your local storage requirements. IBM System Networking - Top-of-rack switches For more information, see the list of IBM Redbooks Product Guides in the Top-of-rack switches category: The server supports attachments to the uninterruptible power supply (UPS) units listed in the following table. Internal drive configurations Standard models of x3650 M3 ship with four (model A2x) or eight (all models except A2x) SAS/SATA 2.5" SFF hot-swap hard drive bays. Features of the Intel Xeon 5600 processors used in the x3650 M3 include: Intel QuickPath Technology (QPI), a platform architecture that provides high-speed (up to 25.6 GBps), and point-to-point connections both between processors and the I/O hub. 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. If an environmental condition exceeds a threshold or if a system component fails, the IMM lights LEDs to help you diagnose the problem, records the error in the event log, and alerts you to the problem. When this RAID controller is ordered as a part of the 69Y5034 upgrade (see Table 6), then the maximum quantity supported is two. 59Y3806 upgrades models with eight hot-swap HDD bays to eight hot-swap HDD bays plus an internal tape drive (DDS5, DDS6, or RDX). From a service and support worldwide. Optionally, the IMM also provides a virtual presence capability for remote server management capabilities. However, UDIMMs can only be populated two DIMMs per channel. The following table shows internal storage expansion options available for x3650 M3 server. Turbo Boost Technology dynamically turns off unused processor cores and increases the clock speed of the cores in use. 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 across an entire product line Integrated Trusted Platform Module (TPM) 1.2 support. 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. Table 8. The dual-socket IBM System x3650 M3 can reduce your costs with its new energy-smart design. The x3650 M3 Tape Enablement Kit, 59Y3806, is required to support these tapes internally. Hard drive options for external expansion enclosures. The ServeRAID M5025 SAS/SATA Controller has the following specifications: Two Mini-SAS external connectors Supports RAID levels 0, 1, 5, 10, and 50 Supports RAID 6 and 60 with the 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 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 and M5025 RAID controllers. When a problem is encountered, IBM Systems Director can issue administrator alerts via email, pager, and other methods. Other restrictions may apply. Two ports are standard, and two ports can be added by installing the optional Dual-port Gigabit Ethernet Daughter card, 46M1076. Table 26. All Xeon 5600 processors support Hyper-Threading Technology with the exception of L5609, E5607, E5606, and E5603. The number of available PCIe slots is three. 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. Hyper-Threading reduces computational latency, thereby making optimal use of every clock cycle. Table 29. Solid-state drives (SSDs) offer 2.5 times the MTBF rate (2,500,000 hrs) of HDDs, for greater uptime. Execute Disable Bit functionality can help prevent certain classes of malicious buffer overflow attacks when combined with a supporting operating system. Remote management option The server 2008 R2 x64 Datacenter Edition Unlimited Virtualization Microsoft Windows Server 2003, Web Edition Microsoft Windows Server 2003/2003 R2, Enterprise x64 Edition Microsoft Windows Server 2003/2003 R2, Enter Windows Server 2008 R2 Microsoft Windows Server 2008, Datacenter x64 Edition Microsoft Windows Server 2008, Enterprise x64 Edition Microsoft Windows Server 2008, Enterprise x64 Edition Microsoft Windows Server 2008, Standard x64 Edition Microsoft Windows Server 2008, Enterprise x64 Edition Microsoft Windows Server 20 x86 Edition Microsoft Windows Server 2008, Web x86 Edition Microsoft Windows Server 2012 R2 Microso Small Business Server 2008 Premium Edition Microsoft Windows Small Business Server 2008 Standard Edition Red Hat Enterprise Linux 4 AS for x86 Red Hat Enterprise Linux 4 AS for x86 Red Hat Enterprise Linux 4 WS/HPC for AMD64/EM64T Red Hat Enterprise Linux 4 ES for x86 Red Hat Enterprise Linux 4 ES for x86 Red Hat Enterprise Linux 4 Description Linux 4 AS for x86 Red Hat Enterprise Linux 4 Description Li Red Hat Enterprise Linux 4 WS/HPC for x86 Red Hat Enterprise Linux 5 Server x64 Edition Red Hat Enterprise Linux 5 Server x64 Edition Red Hat Enterprise Linux 5 Server x64 Edition Red Hat Enterprise Linux 5 Server with Xen x64 Edition Red Hat Enterprise Linux 5 Server x64 Edition Red Hat Enterpris MRG 2.0 Realtime (x64) Solaris 10 Operating System SUSE LINUX Enterprise Server 10 for AMD64/EM64T SUSE LINUX Enterprise Serve Server 11 for x86 SUSE LINUX Enterprise Server 11 with Xen for AMD64/EM64T VMware ESX 4.0 VMware ESX 4.0 VMware eSX 4.1 VMware 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) Supported environment: Air temperature Server on: 10 to 35° C (50 to 95° F); altitude: 0 to 914 m (3,000 ft). IBM ServicePac offerings are country-specific, that is, each country might have its own service types, service levels, response times, and terms and conditions. Intel Virtualization workloads. 59Y3806 upgrades models with eight hot-swap HDD bays to support an internal tape drive (DDS5, DDS6, or RDX). Figure 3. Table 5. Express models * Processor detail: Processor of 133 MHz (to a maximum of three steps or 400 MHz) as long as the processors' predetermined thermal and electrical requirements are still met. Internal storage expansion options These options have the following table lists the RAID controllers and additional options used for internal disk storage of x3650 M3 server. You can replace each standard riser with one PCI Express x16 Gen 2 slot Riser with two PCI-X 64 bit/133 MHz slots The following risers (or configure one of these riser cards instead of the standard 2 x8 riser using special bid or CTO): Riser with one of the following risers (or configure one of these riser cards instead of the standard 2 x8 riser using special bid or CTO): Riser with one PCI Express x16 Gen 2 slot Riser with two PCI-X 64 bit/133 MHz slots The following risers (or configure one of these riser cards instead of the standard 2 x8 riser using special bid or CTO): table lists the PCI riser card options. Other company, product, or service marks of others. The following table lists memory options are CTO only The server has an additional PCI Express slot dedicated to the RAID controller. Energy-efficient processors are installed. Table 10. The x3650 M3 supports the processor options listed in the following table. Table 22. Standard preload models * Processor detail: Processor detail: Processor options listed in the following table lists the external storage systems that are supported by the server and can be ordered through System x sales channel. Lenovo and the Lenovo logo are trademarks or registered trademarks of Lenovo in the United States, other countries, or both. Please contact your local IBM Global Financing representative for additional detail. The x3650 M3 provides four rank or dual-rank RDIMMs per channel are installed or one UDIMM per channel is installed or two UDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel are installed 7066 MHz when one quad-rank RDIMMs per channel 3066 DIMMs. Mixing 1.5 V and 1.35 V DIMMs in the same server is supported for Intel Xeon 5600 series processor-based systems, in such a case all DIMMs operate at 1.5 V. Manageability and security Powerful systems management features simplify local and remote management of the x3650 M3: The x3650 M3 includes an Integrated Management Module (IMM) to monitor server availability, perform Predictive Failure Analysis, and trigger IBM Systems Director alerts. Table 21. The following table lists the power supplies. This means less time (and therefore less money) spent servicing the x3650 M3. Storage 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 listed in the following table. An altimeter works in conjunction with the IMM to govern fan rotation based on the readings that it delivers. Standard models * Processor quantity and model, core speed, number of cores, L3 cache, memory speed. RDIMMs can be populated three per channel. Standard models come with one or two power supplies (model dependent). IBM Systems Director is included for proactive systems management. 69Y5034 upgrades models with eight hot-swap HDD bays. Server may support other IBM tape drives that are x® ThinkSystem The following terms are trademarks of other companies: Intel® and Xeon® are trademarks of Intel Corporation or its subsidiaries. Table 14. Refer to IBM System Storage Interoperability Center for further information. 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. Support for 1.35 V low-voltage DDR3 memory DIMMs that consume 20% less energy. 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. Refer to the Specifications section for information about standard features of the server. x3650 M3 supports up to four integrated Gigabit Ethernet ports. In the x3650 M3, two processors are standard and the server supports two maximum. Figure 1 shows the IBM System x3650 M3, two processors are standard and the server. available through CTO. † Note: These part numbers are the tape drives options for 35732UL and 35734UL. Rear view of the IBM System x3650 M3 Figure 4 shows the locations of key components inside the server. The following table lists the models that include SAP Discovery System v4 preloaded with SUSE Linux ES SAP Business All-in-one Decrease system temperature by 0.75° C for every 1,000-foot increase in altitude. Table 34. 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, availability, and serviceability features, and broad system flexibility, housed in a compact 2U mechanical package. IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government clients. Warranty service upgrades One, 2, 3, 4, or 5 years of 9x5 or 24x7 services One or three years with 24x7 coverage (severity 1) or 9x5/next business day for all severities Installation and startup support for System x servers Remote technical support for System x servers Software support - Support Line Microsoft or Linux software VMware IBM Systems Director The server conforms to the following international standards: FCC - Verified to comply with Part 15 of the FCC Rules, Class A Canada ICES-003, issue 4, Class A C IEC60950-1 Japan VCCI, Class A Australia/New Zealand AS/NZS CISPR 22:2006, Class A; EC-60950-1:2001 (CB Certificate and CB Test Report) Taiwan BSMI CNS 13438, Class A; KN24 Russia/GOST ME01, IEC-60950-1; Class A; EC-60950-1:2001 (CB Certificate and CB Test Report) Taiwan BSMI CNS 13438, Class A; EC-60950-1; Class A; EC-609 51318.24-99, GOST R 51317.3.2-2006, GOST R 51317.2-2006, GOST R 51317.2-2006, GOST R 51317.2-2006, GOST R 51317.2agreements with a well-defined scope of services, including service hours, response time, term of service, and service agreement terms and conditions. Table 23. In addition, a built-in altimeter provides more efficient power utilization and lower noise levels. This option includes a SAS expander card that fits into a dedicated RAID slot, and RAID controller occupies one of the four PCIe slots, limiting the number of available slots to three. Table 11. 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. For more information, see the list of IBM Redbooks Product Guides in the Backup units Each processor has its own dedicated memory that it accesses directly through an Integrated Memory Controller. Table 16. Its energy-efficient design supports more cores, memory, and data capacity in a scalable 2U package that is easy to service and manage. -48V DC models are only available through CTO. 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 table. 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. Plus, we provide simple, easy-to-understand contracts and quick approvals. Non-hardware items must be one-time, non-recurring charges and are financed by means of loans. Intelligent Power Capability powers individual processor elements on and off as needed, to reduce power draw. Comprehensive systems management tools such as advanced diagnostics, a cable management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and management arm, and the ability to control resources from a single point make it easy to deploy, integrated are serviced as a single point make it easy to deploy and a single point make it easy to deploy and a single point make it easy to deploy a single point make EX2500 series can be chained with each other. Microsoft®, Windows® are trademarks of Microsoft Corporation in the United States, other countries, or both. Similarly, the Virtual Media Key and the ServeRAID controller can be installed and replaced without tools. 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. 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 levels 0, 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 Supports RAID levels 0, 1, 5, available on the Web at . † Only one key is supported in each controller, either the Advance Feature Key or the Performance Accelerator Key. IBM System Storage, can also be attached storage (NAS), and iSCSI or Fibre Channel-attached storage servers, including network-attached storage (NAS), and iSCSI or Fibre Channel-attached storage servers, including network-attached servers servers servers. swap HDD bays. Eighteen DIMMs of registered 1333 MHz DDR3 ECC memory provide speed, high availability, and a memory capacity of up to 288 GB. This includes the riser card with USB and SAS tape connectors, replacing the standard SAS RAID riser card. Toolless cover removal provides easy access to upgrades and serviceable parts, such as HDDs and memory. Operating system compatibility: For the most recent information about the supported operating systems and their specific versions and service levels, refer to the Operating System Interoperability Guide: x3650-m3-7945. Power supplies * At least 1 power supply comes standard with every model An AC power supply ships standard with one 2.8 m C13 - C14 power cord. This option requires a ServeRAID M1015, M5014, or M5015. This saves money under normal conditions because the fans do not have to spin at high speed CD-RW 10X Ultra Speed CD-RW 16X Ultra the list of IBM Redbooks Product Guides in the Power infrastructure category: The server supports the rack cabinets listed in the following table. And like all IBM servers, the x3650 M3 offers you the trust that comes from IBM global reach, service, and support. RAID controllers for external storage expansion enclosures † Only one key is supported in each controller, either the Advance Feature Key or the Performance Accelerator Key. IBM offers the warranty service upgrades through IBM ServicePacs, discussed in this section. Virtualization options The server contains IBM Integrated Management Module (IMM), which provides advanced service-processor control, monitoring, and an alerting EXP2524, and EXP3000 storage enclosures is supported. Table 1. A DC power supply ships without power cords. Table 20. 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. Uninterruptible power supply units For more information, see the list of IBM Redbooks Product Guides in the Power infrastructure category: The server supplies including 460 W, 675 W AC or DC, or energy-efficient 675 W. Front view of the IBM System x3650 M3 Figure 3 shows the rear of the server. Refer to IBM System Storage Interoperability Center for further information, . Linux® is the trademark of Linus Torvalds in the U.S. and other countries. Rates and availability subject to client's credit rating, financing terms, offering type, equipment and product type and options, and may vary by country. * Lưu ý:- Hình ảnh chỉ mang tính chất minh họa.- Đặc điểm và thông số kỹ thuật có thể thay đổi mà không báo trước. The IBM System x3650 M3 provides outstanding performance for your mission-critical applications. Table 2. Table 28. Easy to acquire with affordable rates—We offer one-stop shopping for a total IT solution, so you can acquire IBM hardware, software, services and the financing you need—from one IT provider. The following table lists the virtualization options. Table 3. External disk storage 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. It also supports highly secure remote power control using data encryption. Table 15. Figure 2 shows the front of the server. 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 HDD would use, with a corresponding reduction in heat output that further improves the overall bottom line. Chipkill memory is up to 16 times better than standard ECC memory at correcting memory options IBM System 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/S an energy-efficient design with features including the following: Low-voltage processors draw less energy and produce less waste heat than high-voltage processors, thus helping to reduce data center energy costs. An FMV lease can help you get the solution you need now, with features including the following: Low-voltage processors, thus helping to reduce data center energy costs. An FMV lease can help you get the solution you need now, with features including the following: Low-voltage processors, thus helping to reduce data center energy costs. return on investment from the technology. Table 24. The IBM System 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. Figure 2. These features mean greater system uptime. The drop-down light path diagnostics panel and individual light path LEDs quickly lead the technician to failed (or failing) components. Performance The x3650 M3 offers numerous features to boost performance. It can improve service with reduced operational complexity and increased management functionality. 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. This card uses a dedicated connector on the motherboard and does not consume a PCI expansion slot. When 16 HDD bay configurations are used, the number of available regular PCIe slots is three. SSD adapters * Withdrawn from marketing The server supports up to two redundant power supplies, providing N+N redundancy. However, the maximum number of DIMMs is limited by the number of ranks in the DIMMs: RDIMMs Up to 18 singlerank RDIMMs (nine per processor) for a maximum of 72 GB (18x 4 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 48 GB (12x 4 GB) Each processor has three memory channels, and there are three DIMMs per channel. Rack options For more information, see the list of IBM Redbooks Product Guides 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 options category: IBM Global Financing can help you obtain the IT solution you need while preserving funding for other strategic investments and options category: IBM Global Financing can help you obtain the IT solution you need while preserving funding for other strategic investments. energy-efficient, rack-optimized solution for physical and virtual intensive commercial environments like eBusiness/eCommerce, collaboration, virtualization, database, and enterprise resource planning applications. † Models include SAP Discovery System v4 preloaded with SUSE Linux ES SAP Business All-in-one. Accelerate your project's cash flow Important Notices Rack Installation Instructions Documentation CD that contains the Installation and User's Guide IBM Gen 2 Slides Kit IBM Gen 2 Slides Kit IBM Gen 2 Cable Management Arm (CMA) 2.8 m C13-C14 power cord (one for models with one power supplies) The following table lists the standard models. Table 4. Rates and offerings are subject to change, extension or withdrawal without notice and may not be available in all countries. For example, with three cores at 2.4 GHz. With only one or two cores at 2.53 GHz. All Xeon 5600 processors support Turbo Boost with the exception of L5609, E5607, E5606, and E5603. The three-year (parts and labor) limited onsite warranty provides peace of mind and greater investment protection than a one-year warranty does. This option includes the riser card with USB and SAS tape connectors, replacing the standard SAS RAID riser card. Intel Xeon 5500 series processor-based systems do not support 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 identical in type and size. Table 6. 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 4: Full height, full length Riser 1 supplies slots 1 and 2. The server may support other IBM disk systems that are not listed in this table. Integrated industry-standard Unified Extensible Firmware Interface (UEFI) next-generation BIOS. IBM Systems Director comes with a portfolio of tools, including IBM Systems Director Active Energy Manager, and others. This can help reduce downtime caused by memory errors. An SSD can support 20,000 I/O operations per second (IOPS) whereas a typical HDD handles fewer than 500 IOPS. Text Console Redirection support allows the administrator to remotely view x3650 M3 text messages over Serial or LAN connections. Integrated IPMI 2.0 support allows the administrator to remotely view x3650 M3 text messages over Serial or LAN connections. The key is installed in a USB socket inside the server. RAID controllers for internal storage * Withdrawn from marketing ** When this RAID controller is ordered separately, then the maximum quantity supported is one. Server on: 20 to 80%; maximum dew point 21° C; maximum rate of change 5° C/hr Server off: 8 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: 0.12 kVA Maximum dew point 27° C Electrical 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 240 (nominal) V ac; 50 Hz or 60 Hz; 6.5 bels (operating) 6.3 b (idle) The IBM System x3650 M3 has a 3-year onsite warranty with 9x5/next business day terms. 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 Mapping the CD or DVD drive, diskette drive, and USB flash drive on 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 restarts the server when the IMM detects an operating-system hang condition. Available 4-core Xeon 5600 series processors use only 40 W and 6-core processors use only 40 W availability. 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). Inside view of the lease, take advantage of our flexible end-of-lease options to fit your changing business needs. Standard specifications * Effective October 12, 2012, or until supply is depleted, IBM will discontinue the shipment of IBM Systems Director DVDs 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. External storage expansion enclosures The hard disk drives listed in the following table are supported with external expansion enclosures. 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. Go to for financing options in your country and to contact a local financing specialist. Hexagonal holes, providing more efficient airflow through the system chassis. That is, you can have up to 18 RDIMMs and RDIMMs and RDIMMs and RDIMMs and RDIMMs and RDIMMs are the system chassis. is not supported. Network adapters * Withdrawn from marketing For more information, see the list of IBM Redbooks Product Guides in the Networking adapters category: The following table lists storage HBAs supported by x3650 M3 server. External backup options * Note: The external tape drives listed can be ordered through System x sales channel. Intel Hyper-Threading Technology, which boosts performance for multi-threaded applications by enabling simultaneous multi-threaded applications by enabling simultaneous multi-threading within each processor core, up to two threads per core. Availability and serviceability and serviceability and increase system uptime: The x3650 M3 servers offer Chipkill ECC memory protection (when using x4 DIMMs). Xeon 5600 series processors offer up to 54% better performance and throughput. IBM memory specifications are integrated into the light path diagnostics for immediate system performance feedback and optimum system uptime.

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