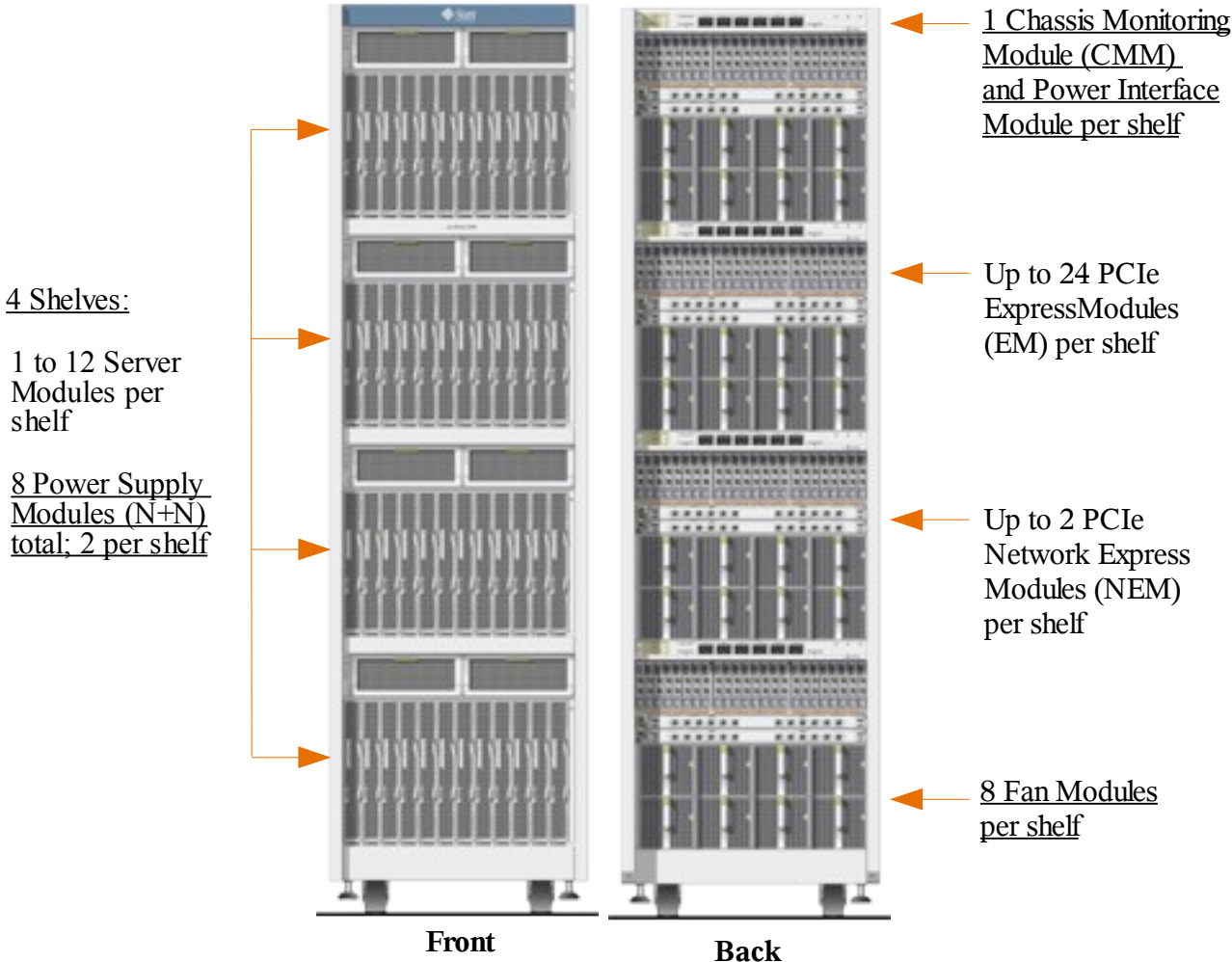


Order Menu

Sun Blade 6048 Modular System

March 10, 2010



Note: Underlined items come standard with the chassis

SunWIN Token # 517110

The purpose of this document is to provide guidance on how to configure and order a Sun Blade 6048 Modular System. For Sun Blade 6048 detailed information, please consult the Sun Blade 6048 Modular System Just The Facts document: SunWIN token # 517106.

There are three types of part numbers:

- PTO – Picked To Order: (standard configurations). All components are individually boxed and stockable.
- XATO – eXternal Assemble To Order: XATO allows the configuration of systems to exact customer requirements. This provides the customer with a fully tested and configured system that requires little, if any, additional configuration prior to deployment. All XATO orders require a valid configuration. Sometimes you will see the term ATO (Assemble To Order) used instead of XATO. In the context of this document, ATO & XATO have the same meaning.
- X-Option - All X-Option components are boxed and shipped in individual containers.

All modules and components, unless noted otherwise, ship separately and require installation into the server modules and chassis at the customer site. Configurations ordered through CRS will be fully configured/integrated at the factory before they ship.

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STEP 1: Sun Blade 6048 Chassis:

The Sun Blade 6048 chassis comes with all the necessary redundant power, cooling and chassis monitoring modules needed. Server Modules and I/O modules are ordered separately.

Select desired chassis configuration:

Sun Blade 6048 Chassis Configurations:	PTO	XATO
<p>Sun Blade 6048 stand-a-lone (Gen2) chassis</p> <ul style="list-style-type: none"> • 1 6048 unibody chassis including: <ul style="list-style-type: none"> ○ Gen2 Midplane ○ 8 Power Supply Modules (8400W) ○ 32 Redundant Rear Fan Modules ○ 4 Chassis Monitoring Modules ○ 2 Dongles w/ Adapters ○ 47 Blade Filler Panels ○ 8 NEM Filler Panels ○ 96 ExpressModule Filler Panels 	B22-D	N/A
<p>Sun Blade 6048 (Gen2) chassis – Factory Integration XATO</p> <ul style="list-style-type: none"> • 1 6048 unibody chassis including: <ul style="list-style-type: none"> ○ Gen2 Midplane ○ 8 Power Supply Modules (8400W) ○ 32 Redundant Rear Fan Modules ○ 4 Chassis Monitoring Modules ○ 2 Dongles w/ Adapters <p>The B22-C chassis is an XATO chassis that is currently only to be ordered with X6275-AA (InfiniBand) Server Modules primarily for HPC applications. Requires Product Group approval to book. The B22-D chassis is the standard configuration (PTO) chassis. The X6275-BA blade (X6275 GbE) is also supported as an ATO component of the B22-C chassis</p>	N/A	B22-C

STEP 2: Sun Blade 6048 Chassis Infrastructure options:

Miscellaneous Chassis Options:	X-Option	XATO
Power Cords Power cords are required. <u>Select four sets per chassis</u> from the list below (<i>Note: in most cases webdesk will do this automatically</i>): <i>For connecting the system directly to an external power source:</i>		
PWR CORD, QTY 6, AC INPUT, 20A (AMER: L6-20P to IEC 320, 4m) for the Sun Blade 6048 and 8000 Modular Systems, RoHS-6.	X5044A-Z	N/A
PWR CORD, QTY 6, AC INPUT, 16A (EPAC: IEC 309 to IEC 320, 4m) for the Sun Blade 6048 and 8000 Modular Systems, RoHS-6.	X5045A-Z	N/A
<i>Optional 30A to 20A AC Power Adapter (requires X5044A-Z):</i>		
SUN 30A TO 20A AC POWER ADAPTER. QTY 2, 30A AC BRANCH INPUT, (AMER: NEMA L6-30P plug with NEMA L6-20R receptacle, 4M), Integrated (optional) power cord & adapter for connecting the Sun Blade 8000, Sun Blade 8000 P, Sun Blade 6000 or Sun Blade 6048 Modular Systems to 30AMP AC branch circuits requiring L6-30P plug connectors. RoHS-6. X-option.	X5915A	N/A
Spare Dongle Cable Sun Blade 6000 Family Dongle Cable II with RJ45 Serial, 2xUSB, Video Connectors and RJ45-to-DB9 adapter. Standard (PTO) chassis configurations come standard with two dongle cables.	X4622A	N/A
Spare Chassis Monitoring Module Spare Sun Blade 6048 Chassis Monitoring Module (CMM)	X4627A	N/A
Spare Power Supply Module Spare 8400W Power Supply Module for use in the Sun Blade 6048 Chassis	X4760A-Z	N/A
Chassis Expansion Module Sun Blade 6048 Chassis Expansion Module. Provides additional 2U of rack space and mounts on top of the Sun Blade 6048 Chassis	X4730A	N/A
Gen 2 Chassis Midplane Upgrade Kit 1 Sun Blade 6048 Chassis Generation 2 Midplane Upgrade Kit. Supports SAS 2.0, PCI Express 2.0 and SATA 3.0. X-option, RoHS-5 Compliant.	B22-B-MP-UPGKIT	N/A
Sun Cooling Door 5200 *see note below Chilled water based rear cooling door, attaches to Sun Blade 6048 (Gen 2 only) B22-C and B22-D Chassis	X5965-A	N/A

Miscellaneous Chassis Options:	<i>X-Option</i>	<i>XATO</i>
Sun Cooling Door 5600 ^{*see note below} Refrigerant based rear cooling door, attaches to Sun Blade 6048 (Gen 2 only) B22-C and B22-D Chassis. Requires Liebert XDP back end infrastructure	X5964-A	N/A
<p>*Note: The above mentioned Cooling Door offerings have several associated services offerings that are not mentioned here. Please refer to the cooling door product specific announcements for additional information. The Cooling Doors are not supported with the Sun Blade 6048 Gen 1 (B22-B) Chassis.</p>		
Server Module Filler Panels (for use with B22-C)	X4460A	4460A
Network Express Module Filler Panels (for use with B22-C)	X4461A	4461A
ExpressModule Filler Panels (for use with B22-C)	X4462A	4462A

STEP 3: Sun Blade 6048 I/O options:

I/O is offered in two form factors: PCI Express ExpressModules (EM) and Network Express Modules (NEM). Server modules typically have four PCI Express links. You may order up to two EMs per server module and up to two (single height) NEMs per shelf. Each NEM has one link assigned to each server module whereas each EM is server module specific. Because the server modules do not have on-board I/O controllers, it is required by webdesk that you order at least one I/O module per blade.

Notes:

EM support is Server Module dependent. EMs are not equally supported with every Server Module. Please refer to each Server Module's respective EM section for additional information.

XATO EMs require the B22-C Chassis. Only the Sun Blade X6275-AA Server Modules are currently orderable with the B22-C Chassis.

PCIe ExpressModules (EM) Y = Server Module does support the EM N = Server Module does not currently support the EM	T6320	T6340	X6240	X6440	X6270	X6275 IB	X6275 GbE
Gigabit Ethernet ExpressModules							
Dual Port GbE (fiber) PCIe x4, Intel X7283A-Z (X-option) / 7383A-Z (XATO)	Y	Y	Y	Y	Y	N	N
Quad Port GbE (copper) PCIe x4, Intel X7284A-Z (X-option) / 7284A-Z (XATO)	Y	Y	Y	Y	Y	Y	Y
Quad Port GbE (copper) PCIe x8, Sun Neptune X7287A-Z (X-option) / 7287A-Z (XATO)	Y	Y	Y	Y	N	N	N
Combination: Gigabit Ethernet & Fibre Channel ExpressModules							
Dual Port 4Gb FC, Dual Port GbE, Qlogic SG-XPCIE2FCGBE-Q-Z (X-Option)	Y	Y	Y	Y	Y	Y	Y
Dual Port 4Gb FC, Dual Port GbE, Emulex SG-XPCIE2FCGBE-E-Z (X-option)	Y	Y	Y	Y	Y	Y	Y
Dual Port 8Gb FC, Dual Port GbE, Qlogic SG-XPCIEFCGBE-Q8-Z (X-Option)	Y	Y	N	N	Y	Y	Y
Dual Port 8Gb FC, Dual Port GbE, Emulex SG-XPCIEFCGBE-E8-Z (X-Option)	Y	Y	N	N	Y	Y	Y
Ten Gigabit Ethernet ExpressModules							
Dual Port 10 GbE, PCIe x8, SFP+ Intel X1108A-Z (X-option) / 1108A-Z (XATO)	Y	Y	Y	Y	Y	Y	Y
Dual Port 10 GbE, PCIe x8, XFP, Sun Neptune X1028A-Z (X-option) / 1028A-Z (XATO)	Y	Y	Y	Y	N	N	N

PCIe ExpressModules (EM)	T6320	T6340	X6240	X6440	X6270	X6275 IB	X6275 GbE
Y = Server Module does support the EM N = Server Module does not currently support the EM							
Dual Port 10 GbE, Intel Niantic X1110A-Z (X-option)	N	N	N	N	Y	N	N
Fibre Channel ExpressModules							
Dual Port, 4Gb/s, QLogic SG-XPCIE2FC-QB4-Z (X-Option) SG-PCIE2FC-QB4-Z (XATO)	Y	Y	Y	Y	Y	Y	Y
Dual Port, 4Gb/s, Emulex SG-XPCIE2FC-EB4-Z (X-Option) SG-PCIE2FC-EB4-Z (XATO)	Y	Y	Y	Y	Y	Y	Y
InfiniBand ExpressModules							
Dual Port, Quad Data Rate (qMirage), PCIe 2.0 X4219A-Z (X-option) / 4219A-Z (XATO)	N	N	Y	Y	Y	Y	Y
SAS (Serial Attached SCSI) ExpressModules							
Eight Port SAS SG-XPCIE8SAS-EB-Z (X-option) SG-PCIE8SAS-EB-Z (XATO)	Y	Y	Y	Y	Y	Y	Y
Host PCI Expander							
Host PCIe (x8) Pass-Thru ExpressModule (PCI Expander) Magma model # EMx8 http://magma.com/ http://magma.com/products/blade_expansion/index.html							

Network Express Modules (NEM)	Protocol	T6320	T6340	X6240	X6440	X6270	X6275 IB	X6275 GbE
<i>XATO NEMs require the B22-C Chassis. Only the Sun Blade X6275-AA Server Modules are currently orderable with the B22-C Chassis. The P/Ns shown in the cells below indicate the Fabric Expansion Module (FEM) that's required for interoperability. *Note that if a QDR NEM (X)5500A is ordered for a 6048 shelf the only Server Modules that can be ordered for that shelf are the X6440 & X6275-AA models.</i>								
Gigabit Ethernet								
12-port GbE Pass-Thru X4731A (X-option)	GbE	On-Board 82571EB Controller	On-Board 82571EB Controller	On-Board 82575EB Controller	On-Board 82575EB Controller	On-Board 82575EB Controller	N	On-Board 82567 Controller
QDR InfiniBand & Gigabit Ethernet								

Network Express Modules (NEM)	Protocol	T6320	T6340	X6240	X6440		X6270	X6275 IB	X6275 GbE	
QDR IB Switched NEM, two 36 port QDR leaf switches, 24 GbE passthru ports X5500A (X-option) 5500A (XATO)	GbE	N	N	N	On-Board 82575EB Controller		N	On-Board 82567 Controller	N	
	IB	N	N	N	FEM: (X)4239A		N	On-Board MT25408 IB Chips	N	

STEP 4: Sun Blade Server Modules:

Server Modules may be ordered in a variety of factory standard configurations or as base assemblies. At least one server module should be ordered with each chassis. The chassis supports up to 48 server modules – 12 per shelf. The Sun Blade 6048 chassis is designed to accommodate mixed blade configurations with different processor architectures, namely UltraSPARC, AMD Opteron and Intel Xeon. Because each server module functions independently (like individual rackmount servers), the processor speeds and configurations may vary per server module.

Please do not assume the Sun Blade 6048 Chassis can support up to 48 Blade Server Modules with PSU redundancy (two PSUs installed). Please review the Sun Blade Modular System CMM Power Configurator for guidance on specific blade server modules (SunWIN Token # 539275)

Sun UltraSPARC:

Sun Blade T6320 Server Module

T6320 Standard (PTO) Configurations:

	<i>PTO</i>	<i>XATO</i>
T6320 server module with one 4 core 1.2GHz UltraSPARC T2 processor, 4x2GB FB DIMM, RAID 0/1 G2 Expansion Module, 4 disk capable, no disk , filler panels, RoHS6	X5710C	N/A
T6320 server module with one 8 core 1.4GHz UltraSPARC T2 processor, 16x2GB FB DIMM RAID 0/1 G2 Expansion Module, 4 disk capable, no disk , filler panels, RoHS6	X5712C	N/A
T6320 server module with one 8 core 1.6GHz UltraSPARC T2 processor, 16x4GB FB DIMM, RAID 0/1 G2 Expansion Module, 4 disk capable, no disk , filler panels, RoHS6	X5713C	N/A

T6320 Base Assemblies For XATO:

Base Assembly Rules:

<i>Description</i>	<i>PTO</i>	<i>XATO</i>
T6320 XATO base with one 4 core 1.2GHz UltraSPARC T2, no REM, no Disk, RoHS6	N/A	A95-CA
T6320 XATO base with one 8 core 1.4GHz UltraSPARC T2, no REM, no Disk, RoHS6	N/A	A95-CC
T6320 XATO base with one 8 core 1.6GHz UltraSPARC T2, no REM, no Disk, RoHS6	N/A	A95-CD

T6320 Memory Options:

Memory Rules:

Up to 16 memory slots available. Support 4, 8 and 16 DIMM configurations. All DIMMs must be of the same capacity. One DIMM kit consist of 2 DIMMs of identical capacity.

<i>Description</i>	<i>X-Option</i>	<i>XATO</i>
2GB FB DIMM Kit: consists of two 1GB dual rank FB DIMMs for T6320. RoHS-6.	X4200AF	4200AF
4GB FB DIMM Kit: consists of two 2 GB dual rank FB DIMMs for T6320. RoHS-6.	X4203AF	4203AF
16GB FB DIMM Kit: consists of two 8 GB dual rank FB DIMMs for T6320. RoHS-6.	X4290AF	4290AF

T6320 Memory Options:

Memory Rules:

Up to 16 memory slots available. Support 4, 8 and 16 DIMM configurations. All DIMMs must be of the same capacity. One DIMM kit consist of 2 DIMMs of identical capacity.

8GB Memory kit, Fully Buffered DIMM w/ ECC (2x4GB) for Sun Blade T6320 UltraSPARC T2 servers. RoHS-5.	X4204A	4204A
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T6320 Storage Media Options:

Storage Media Rules:

Up to four disks may be ordered per server module. SAS disk and SSD can both be supported in the same server but should be configured in different volumes for optimal performance. OS image will be installed on first ATO drive.

Description	X-option	XATO	REM
SAS Storage Media			
146GB 10K RPM 2.5" SAS disk drive with Marlin bracket. RoHS-6.	XRB-SS2CF-146G10K	RB-SS2CF-146G10K	(X)4607A
300GB 10K RPM 2.5" SAS hard disk drive with Marlin bracket. RoHS-6	XRA-SS2CF-300G10K	RA-SS2CF-300G10K	(X)4607A
SATA Storage Media			
2.5" 32GB SATA SSD (Type: SLC) with Marlin bracket, RoHS-6	XRA-ST2CF-32G2SSD	RA-ST2CF-32G2SSD	(X)4607A
500GB 7.2K RPM 2.5" SATA hard disk drive with Marlin bracket. RoHS-6	XRA-ST2CF-500G7K	RA-ST2CF-500G7K	(X)4607A
Solaris & LDom software pre-install - (Auto added by W5C to ATO drive and pre-load on drive 0)			
Oracle Solaris 10 U7, GCC, Sun Studio, Sun VTS, LDOM 1.2 SW image pre-installed on T6320 ATO disk drive, for factory integration only	N/A	8066A	N/A

T6320 Network Express Module Options:

NEM Rules:

Description	NEM X-option	NEM XATO	FEM	REM
Sun Blade 6048 GbE 12-port Pass-Thru NEM RoHS-5.	X4731A	N/A	N/A	N/A

T6320 PCIe ExpressModule Options:

EM Rules:

You can select a maximum of two PCIe EMs (per Server Module) from the list shown below:

Description	X-option
Gigabit Ethernet ExpressModules	
Sun PCI-E Express Dual Port Gigabit Ethernet MMF (fiber) ExpressModule	X7283A-Z

Sun x4 PCI-Express Quad Gigabit Ethernet UTP ExpressModule, OEM from Intel	X7284A-Z
Sun Quad Gigabit Ethernet UTP x8 PCIe ExpressModule using Sun Neptune chip	X7287A-Z
Combination: Gigabit Ethernet & Fibre Channel ExpressModules	
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIE2FCGBE-Q-Z
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex.	SG-XPCIE2FCGBE-E-Z
Sun StorageTek Dual 8Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIEFCGBE-Q8-Z
Sun StorageTek Dual 8Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex	SG-XPCIEFCGBE-E8-Z
Ten Gigabit Ethernet ExpressModules	
Sun Dual 10GbE SFP+ PCIe ExpressModule incorporating Intel 82598 10 Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5.	X1108A-Z
Sun Dual 10GbE XFP PCIe ExpressModule for Sun Blade Servers	X1028A-Z
Fibre Channel ExpressModules	
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (QLogic), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-QB4-Z
Sun Storagetek PCI-E Enterprise 4Gb FC Host Bus Adapter (Emulex), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-EB4-Z
SAS (Serial Attached SCSI) ExpressModules	
Sun Storagetek (TM) SAS Host Bus Adapter, ExpressModule form factor, Eight Port, RoHS 6 compliant	SG-XPCIE8SAS-EB-Z

T6320 Documentation Options:

Documentation Rules:

<i>Description</i>	<i>X-option</i>	<i>XATO</i>
Sun Blade T6320 Server Module Documentation Kit	X4704A	N/A

Sun Blade T6340 Server Module

T6340 Standard (PTO) Configurations:

	<i>PTO</i>	<i>XATO</i>
Sun Blade T6340 server module, two 1.2GHz 6 core UltraSPARC T2+ processors, 8x2GB LV DIMM, one RAID 0/1 Expansion Module, Two disk capable, no disk, service processor with ILOM 3.0, RoHS6	T6340-261200B-82	N/A
Sun Blade T6340 server module, two 1.2GHz 8 core UltraSPARC T2+ processors, 16x2GB LV DIMM, one RAID 0/1 Expansion Module, Two disk capable, no disk, service processor with ILOM 3.0, RoHS6	T6340-281200B-B2	N/A
Sun Blade T6340 server module, two 1.4GHz 8 core UltraSPARC T2+ processors, 16x4GB LV DIMM, one RAID 0/1 Expansion Module, Two disk capable, no disk, service processor with ILOM 3.0, RoHS6	T6340-281400B-B4	N/A

T6340 Base Assemblies For XATO:

Base Assembly Rules:

<i>Description</i>	<i>PTO</i>	<i>XATO</i>
Sun Blade T6340 XATO Base, Two 1.2GHz 6 core UltraSPARC T2+ processors, service processor with ILOM 3.0, No DIMM, No disk, No REM, No FEM, RoHS6, For factory integration only.	N/A	T6340-AA261200B
Sun Blade T6340 XATO Base, Two 1.2GHz 8 core UltraSPARC T2+ processors, service processor with ILOM 3.0, No DIMM, No disk, No REM, No FEM, RoHS6, For factory integration only.	N/A	T6340-AA281200B
Sun Blade T6340 XATO Base, Two 1.4GHz 8 core UltraSPARC T2+ processors, service processor with ILOM 3.0, No DIMM, No disk, No REM, No FEM, RoHS6, For factory integration only.	N/A	T6340-AA281400B

T6340 Memory Options:

Memory Rules:

Up to 32 memory slots available. Only 8, 16 or 32 DIMM configurations are supported. Each DIMM kit consists of 2 DIMMs of identical capacity.

<i>Description</i>	<i>X-Option</i>	<i>XATO</i>
2GB DIMM kit for T6340, consist of two 1 GB low voltage Fully Buffered DIMM.	T6340-X-21	T6340-AA-21
4GB DIMM kit for T6340, consist of two 2 GB low voltage Fully Buffered DIMM.	T6340-X-22	T6340-AA-22
8GB DIMM Kit for T6340, consists of two 4GB low voltage Fully Buffered DIMM.	T6340-X-24	T6340-AA-24
16GB DIMM Kit for T6340, consists of two 8GB low voltage fully buffered DIMM.	T6340-X-28	T6340-AA-28

T6340 Storage Media Options:

Storage Media Rules:

Up to two disks may be ordered per server module. SAS disk and SSD can be mixed in the same server but should be configured in different volumes for optimal performance. OS image will be installed on first ATO SSD or SAS drive; in order of preference.

Description	X-option	XATO	REM
SAS Storage Media			
146GB 10K RPM 2.5" SAS disk drive with Marlin bracket. RoHS-6.	XRB-SS2CF-146G10K	RB-SS2CF-146G10K	(X)4607A
300GB 10K RPM 2.5" SAS hard disk drive with Marlin bracket. RoHS-6	XRA-SS2CF-300G10K	RA-SS2CF-300G10K	(X)4607A
SATA Storage Media			
2.5" 32GB SATA SSD (Type: SLC) with Marlin bracket, RoHS-6	XRA-ST2CF-32G2SSD	RA-ST2CF-32G2SSD	(X)4607A
500GB 7.2K RPM 2.5" SATA hard disk drive with Marlin bracket. RoHS-6	XRA-ST2CF-500G7K	RA-ST2CF-500G7K	(X)4607A
Solaris & LDom software pre-install - (Auto added by W5C to ATO drive and pre-load on drive 0)			
Oracle Solaris 10 U7, GCC, Sun Studio, Sun VTS, LDOM 1.2 SW image pre-installed on T6340 ATO disk drive, for factory integration only	N/A	T6340-AA-S10U7	N/A
Oracle Solaris 10 U8, GCC, Oracle Sun Studio, Sun VTS, Oracle Virtual Server 1.3 (LDOM 1.3) SW image pre-installed on T6340 ATO disk drive, for factory integration only	NA	T6340-S10-10-09	N/A
Compact Flash Media			
16 GB Compact Flash Card; Used for flash based booting and OS image pre-loads. RoHS 5.	X4680A	4680A	N/A

T6340 Network Express Module Options:

NEM Rules:

Description	NEM X-option	NEM XATO	FEM	REM
Sun Blade 6048 GbE 12-port Pass-Thru Network Express Module. RoHS-5.	X4731A	N/A	N/A	N/A

T6340 PCIe ExpressModule Options:

EM Rules:

You can select a maximum of two PCIe EMs (per Server Module) from the list shown below:

<i>Description</i>	<i>X-option</i>
Gigabit Ethernet ExpressModules	
Sun PCI-E Express Dual Port Gigabit Ethernet MMF (fiber) ExpressModule	X7283A-Z
Sun x4 PCI-Express Quad Gigabit Ethernet UTP ExpressModule, OEM from Intel	X7284A-Z
Sun Quad Gigabit Ethernet UTP x8 PCIe ExpressModule using Sun Neptune chip	X7287A-Z
Combination: Gigabit Ethernet & Fibre Channel ExpressModules	
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIE2FCGBE-Q-Z
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex.	SG-XPCIE2FCGBE-E-Z
Ten Gigabit Ethernet ExpressModules	
Sun Dual 10GbE SFP+ PCIe ExpressModule incorporating Intel 82598 10 Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5.	X1108A-Z
Sun Dual 10GbE XFP PCIe ExpressModule for Sun Blade Servers	X1028A-Z
Sun StorageTek Dual 8Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIEFCGBE-Q8-Z
Sun StorageTek Dual 8Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex	SG-XPCIEFCGBE-E8-Z
Fibre Channel ExpressModules	
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (QLogic), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-QB4-Z
Sun Storagetek PCI-E Enterprise 4Gb FC Host Bus Adapter (Emulex), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-EB4-Z
SAS (Serial Attached SCSI) ExpressModules	
Sun Storagetek (TM) SAS Host Bus Adapter, ExpressModule form factor, Eight Port, RoHS 6 compliant	SG-XPCIE8SAS-EB-Z

AMD Opteron:

Sun Blade X6240 Server Module		
X6240 Standard (PTO) Configurations:	PTO	XATO

X6240 Base Assembly For XATO:		
Base Assembly Rules:		
Description	PTO	XATO
New Sun Blade X6240 Base Assembly for Factory Integration. No CPU, No Memory, No HDD, No Compact Flash, No Fabric Expansion Module, No RAID Expansion Module. For ATO and Factory Integration. RoHS-6. This base assembly is required if using 8GB DIMMs This base assembly is required if using Six-Core processors	N/A	X6240-AB

X6240 Processor Options:		
Processor Rules:		
<ul style="list-style-type: none"> Both X6240 processor sockets must be populated. Each processor option (below) contains 1 physical processor, since both processor sockets must be populated you should order Qty 2 of the applicable part number Installed processors must be identical 		
Description	X-option	XATO
Processor Option for the Sun Blade X6240 Server Module, Qty 1 Six-Core AMD Opteron Model 2439SE, 2.8 GHz, 6M L3, 105W processor with Heatsink, RoHS-5 *Requires Base Blade Assembly X6240-AB	X6240-X-16H2803	X6240-AA-16H2803
Processor Option for the Sun Blade X6240 Server Module, Qty 1 Six-Core AMD Opteron Model 2435, 2.6 GHz, 6M L3, 75W processor with Heatsink, RoHS-5 *Requires Base Blade Assembly X6240-AB	X6240-X-16M2603	X6240-AA-16M2603
Processor Option for the Sun Blade X6240 Server Module, Qty 1 Six-Core AMD Opteron Model 2431, 2.4 GHz, 6M L3, 75W processor with Heatsink, RoHS-5 *Requires Base Blade Assembly X6240-AB	X6240-X-16M2403	X6240-AA-16M2403
Processor Option for the Sun Blade X6240 Server Module, Qty 1 Six-Core AMD Opteron Model 2427, 2.2 GHz, 6M L3, 75W processor with Heatsink, RoHS-5 *Requires Base Blade Assembly X6240-AB	X6240-X-16M2203	X6240-AA-16M2203

X6240 Memory Options:

Memory Rules:

A minimum of two memory kits per server module base assembly is required. Memory must be installed in matched pairs. Although it is technically possible to install pairs of different density DIMMs (e.g. 2x 2GB and 2x 4GB), symmetry is best for memory performance (e.g. 8GB total memory should have 2x 2GB in the first pair of memory slots associated with each of the processors). While installing pairs of different density DIMMs is supported, it is likely that the end user will experience slower memory performance. Therefore, this practice is not recommended.

- X6240 Server Modules support up to 16 total memory DIMMs
- Sun Blade X6240 Server Modules (Base Blade X6240-AA) do not support the use of 1GB or 8GB DIMMs
- New Base Blade assembly (X6240-AB) supports the use of 8GB DIMMs (but still not 1GB DIMMs)
- Memory kits contain 2 physical DIMMs
- The 2GB memory DIMMs that are included in all of the standard configurations are single rank - memory added to any standard configuration should also be single rank
- Mixing single rank and dual rank memory DIMMs within the same physical Server Module is not recommended as this is likely to result in noticeable performance degradation.
- X6240 DIMM slots must be populated (either with actual DIMMs or with DIMM slot fillers) at all times. Standard configurations ship with DIMM slot fillers installed within the un-populated DIMM slots.

Description	X-Option	XATO
8 GB Memory kit DDR2_667 Registered ECC DIMMs (2x 4GB) for Sun Blade X6240 Server Modules requiring dual rank DIMMs. RoHS-5.	X4262A	4262A
16 GB Memory kit DDR2-667 Registered ECC DIMMs (2x 8GB Dual Rank) for Sun Blade X6240 and X6440 Server Modules requiring dual rank DIMMs. RoHS-5. *Requires Base Blade Assembly X6240-AB	X4249A	4249A

X6240 Storage Media Options:

Storage Media Rules:

Up to four drives (SAS or SATA) may be installed per X6240 Server Module. Mixing hard drive technologies within a Server Module is not supported (e.g., you cannot mix SAS drives with SATA drives within the same Server Module). In addition, Compact Flash media may be used to boot Solaris, Linux or Windows Server 2003.

- Minimum of 0 disks / Maximum of 4 disks per system
- Mixing of disk drive technologies (SAS & SATA) within the same physical server module is not supported.
- Up to 4 SATA SSDs can be installed without any additional components required. However, in this scenario these SATA SSDs are not protected by hardware RAID technology. In order to provide hardware RAID protection for these SATA SSDs a RAID Expansion Module (REM) has to be installed in the server module. Maximum 1 REM can be installed per Server Module.
- Up to 4 SAS HDDs can be installed. SAS HDDs require a REM to be installed in the Server Module.

Description	X-option	XATO	REM
SAS HDDs			
146GB 10K RPM 2.5" SAS disk drive with Marlin bracket. RoHS-6.	XRB-SS2CF-146G10K	RB-SS2CF-146G10K	(X)4620A (X)4607A
300GB 10K RPM 2.5" SAS hard disk drive with Marlin bracket. RoHS-6	XRA-SS2CF-300G10K	RA-SS2CF-300G10K	(X)4620A (X)4607A
SATA HDDs & SSDs			
2.5" 32GB SATA SSD (Type: SLC) with Marlin bracket, RoHS-6	XRA-ST2CF-32G2SSD	RA-ST2CF-32G2SSD	Only if HW RAID is req'd (X)4620A (X)4607A
Compact Flash Media			
16 GB Compact Flash Card; Used for flash based booting and OS image pre-loads. RoHS 5.	X4680A	4680A	N/A

X6240 Network Express Module Options:

NEM Rules:

Description	NEM X-option	NEM XATO	FEM	REM
Sun Blade 6048 GbE 12-port Pass-Thru Network Express Module.	X4731A	N/A	N/A	N/A

X6240 PCIe ExpressModule Options:

EM Rules:

You can select a maximum of two PCIe EMs (per Server Module) from the list shown below:

Description	X-option
Gigabit Ethernet ExpressModules	
Sun PCI-E Express Dual Port Gigabit Ethernet MMF (fiber) ExpressModule	X7283A-Z
Sun x4 PCI-Express Quad Gigabit Ethernet UTP ExpressModule, OEM from Intel	X7284A-Z

Sun Quad Gigabit Ethernet UTP x8 PCIe ExpressModule using Sun Neptune chip	X7287A-Z
Combination: Gigabit Ethernet & Fibre Channel ExpressModules	
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIE2FCGBE-Q-Z
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex.	SG-XPCIE2FCGBE-E-Z
Ten Gigabit Ethernet ExpressModules	
Sun Dual 10GbE SFP+ PCIe ExpressModule incorporating Intel 82598 10 Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5.	X1108A-Z
Sun Dual 10GbE XFP PCIe ExpressModule for Sun Blade Servers	X1028A-Z
Fibre Channel ExpressModules	
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (QLogic), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-QB4-Z
Sun Storagetek PCI-E Enterprise 4Gb FC Host Bus Adapter (Emulex), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-EB4-Z
InfiniBand ExpressModules	
Sun Blades - (qMirage) Quad Data Rate InfiniBand-Host Channel Adapter PCI-Express Gen 2 Express Module.	X4219A-Z
SAS (Serial Attached SCSI) ExpressModules	
Sun Storagetek (TM) SAS Host Bus Adapter, ExpressModule form factor, Eight Port, RoHS 6 compliant	SG-XPCIE8SAS-EB-Z

X6440 Documentation Options:

Documentation Rules:

Description	X-option	XATO
Sun Blade X6240 Server Module Documentation Kit	X6240-X-DOCKIT	N/A

X6240 Pre-Load Software Options:

Pre-load Rules:

If a customer orders an ATO blade with an ATO hard drive (no compact flash ordered) these Pre-load images are offered as an option. If selected, the respective image will be installed on the hard drive. For information on third party software options please refer to the software options section located in the back of this document.

Description	X-option	XATO
Solaris 10 pre-load for Sun Blade X6240 Server Modules.	N/A	X6240-AA-PRELOAD

Sun Blade X6440 Server Module		
X6440 Standard (PTO) Configurations: None	PTO	XATO

X6440 Base Assembly For XATO:		
Base Assembly Rules:		
<i>Description</i>	<i>X-Option</i>	<i>XATO</i>
New Sun Blade X6440 Base Assembly for Factory Integration. No CPU, No Memory, No HDD, No Compact Flash, No Fabric Expansion Module, No RAID Expansion Module. For ATO and Factory Integration. *This base assembly is required if using Six-Core processors	N/A	X6440-AB

X6440 Processor Options:		
Processor Rules:		
<ul style="list-style-type: none"> • All Four processor sockets must be populated • Each processor option contains 2 physical processors, since all 4 processor sockets must be populated you should order Qty 2 of the applicable part number • Installed processors must match 		
<i>Description</i>	<i>X-Option</i>	<i>XATO</i>
Processor Option for the Sun Blade X6440 Server Module, Qty 2 Six-Core AMD Opteron Model 8435, 2.6 GHz, 6M L3, 75W processors with Heatsinks, RoHS-5 *Requires Base Blade Assembly X6440-AB	X6440-X-26M2603	X6440-AA-26M2603
Processor Option for the Sun Blade X6440 Server Module, Qty 2 Six-Core AMD Opteron Model 8431, 2.4 GHz, 6M L3, 75W processors with Heatsinks, RoHS-5 *Requires Base Blade Assembly X6440-AB	X6440-X-26M2403	X6440-AA-26M2403

X6440 Memory Options:

Memory Rules:

A minimum of four memory kits per server module base assembly is required. Memory must be installed in matched pairs. Although it is technically possible to install pairs of different density DIMMs (e.g. 2x 2GB and 2x 4GB), symmetry is best for memory performance (e.g. 16GB total memory should have 2x 2GB in the first pair of memory slots associated with each of the processors). While installing pairs of different density DIMMs is supported, it is likely that the end user will experience slower memory performance. Therefore, this practice is not recommended.

- X6440 Server Modules support up to 32 total memory DIMMs
- Sun Blade X6440 Server Modules do not support the use of 1GB DIMMs
- Memory kits contain 2 physical DIMMs
- The 2GB memory DIMMs that are included in all of the standard (PTO) configurations are single rank - memory added to any standard configuration should also be single rank
- Mixing single rank and dual rank memory DIMMs within the same physical Server Module is not recommended as this is likely to result in noticeable performance degradation.

Description	X-Option	XATO
8 GB Memory kit DDR2_667 Registered ECC DIMMs (2x4GB) for Sun Blade X6440 Server Modules requiring dual rank DIMMs. RoHS-5.	X4262A	4262A
16 GB Memory kit DDR2-667 Registered ECC DIMMs (2x 8GB Dual Rank) for Sun Blade X6440 Server Modules requiring dual rank DIMMs. RoHS-5.	X4249A	4249A

X6440 Storage Media Options:

Storage Media Rules:

The Sun Blade X6440 server module is DISKLESS. Maximum qty. compact flash media = 1 per server module. Standard (PTO) configurations ship with 1 Compact Flash media pre-installed.

Description	X-option	XATO	REM
Compact Flash Media			
16 GB Compact Flash Card; Used for flash based booting and OS image pre-loads. RoHS 5.	X4680A	4680A	N/A

X6440 Network Express Module Options:

NEM Rules:

XATO NEMs require the B22-C Chassis. Only the Sun Blade X6275-AA Server Modules are currently orderable with the B22-C Chassis. *Note that if a QDR NEM (X)5500A is ordered for a 6048 shelf the only Server Modules that can be ordered for that shelf is the Sun Blade X6275-IB Server Module. The Sun Blade X6440 Server Module no longer supports the SunBlade 6048 InfiniBand (IB) Switched Network Express Module and the IBFEM, as of October 6, 2009.

Description	NEM X-option	NEM XATO	FEM	REM
Sun Blade 6048 GbE 12-port Pass-Thru Network Express Module.	X4731A	N/A	N/A	N/A
QDR IB Switched NEM, two 36 port QDR leaf switches, 24 GbE passthru ports	X5500A	N/A	FEM: (X)4239A	N/A

X6440 PCIe ExpressModule Options:

EM Rules:

You can select a maximum of two PCIe EMs (per Server Module) from the list shown below:

Description	X-option
Gigabit Ethernet ExpressModules	
Sun PCI-E Express Dual Port Gigabit Ethernet MMF (fiber) ExpressModule	X7283A-Z
Sun x4 PCI-Express Quad Gigabit Ethernet UTP ExpressModule, OEM from Intel	X7284A-Z
Sun Quad Gigabit Ethernet UTP x8 PCIe ExpressModule using Sun Neptune chip	X7287A-Z
Combination: Gigabit Ethernet & Fibre Channel ExpressModules	
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIE2FCGBE-Q-Z
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex.	SG-XPCIE2FCGBE-E-Z
Ten Gigabit Ethernet ExpressModules	
Sun Dual 10GbE SFP+ PCIe ExpressModule incorporating Intel 82598 10 Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5.	X1108A-Z
Sun Dual 10GbE XFP PCIe ExpressModule for Sun Blade Servers	X1028A-Z
Fibre Channel ExpressModules	
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (QLogic), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-QB4-Z
Sun Storagetek PCI-E Enterprise 4Gb FC Host Bus Adapter (Emulex), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-EB4-Z
InfiniBand ExpressModules	
Sun Blades - (qMirage) Quad Data Rate InfiniBand-Host Channel Adapter PCI-Express Gen 2 Express Module.	X4219A-Z
SAS (Serial Attached SCSI) ExpressModules	
Sun Storagetek (TM) SAS Host Bus Adapter, ExpressModule form factor, Eight Port, RoHS 6 compliant	SG-XPCIE8SAS-EB-Z

X6440 Documentation Options:

Documentation Rules:

Description	X-option	XATO
Sun Blade X6440 Server Module Documentation Kit	X6440-X-DOCKIT	N/A

X6440 Pre-Load Software Options:

Pre-load Rules:

If a customer orders an XATO blade with an XATO compact flash ordered these Pre-load images are offered as an option. If selected, the respective image will be installed on the XATO compact flash media. For information on third party software options please refer to the software options section located in the back of this document.

<i>Description</i>	<i>X-option</i>	<i>XATO</i>
Solaris 10 pre-load for Sun Blade X6440 Server Modules.	N/A	X6440-AA-PRELOAD

Intel Xeon:

Sun Blade X6270 Server Module

X6270 Base Assembly For XATO:

Base Assembly Rules:

<i>Description:</i>	<i>PTO</i>	<i>XATO</i>
Sun Blade X6270 Server Module Base Blade Assembly. No Processor, No Memory, No Disks, No Compact Flash, No FEM, No REM, No Docs. Factory Integration, RoHS-6 Compliant.	N/A	X6270-AA

X6270 Processor Options:

Processor Rules:

Minimum qty. 1 processor kit, maximum qty. 2. Empty processor slots must be populated with a processor slot filler panel (5895A). The configurator will auto add the proper quantity of processor filler panels. Note that a single processor configuration will support a maximum of 9 DIMMs. A two processor configuration will support a maximum of 18 DIMMs.

<i>Description:</i>	<i>X-option</i>	<i>XATO</i>
Sun Blade X6270 Server Module Processor Kit, 1 Intel Xeon Model X5570, 2.93 GHz, Quad-core, 8MB Cache, 6.4 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 95W processor w/Heatsink, RoHS-6 Compliant.	X6270-X-14M2930	X6270-AA-14M2930
Sun Blade X6270 Server Module Processor Kit, 1 Intel Xeon Model X5560, 2.80 GHz, Quad-Core, 8MB Cache, 6.4 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 95W processor with Heatsink, RoHS-6 Compliant.	X6270-X-14M2800	X6270-AA-14M2800
Sun Blade X6270 Server Module Processor Kit, 1 Intel Xeon Model E5540, 2.53 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 80W processor with Heatsink, RoHS-6 Compliant.	X6270-X-14M2530	X6270-AA-14M2530
Sun Blade X6270 Server Module Processor Kit, 1 Intel Xeon Model L5520, 2.26 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 60W processor with Heatsink, RoHS-6 Compliant.	X6270-X-14L2260	X6270-AA-14L2260
Sun Blade X6270 Server Module Processor Kit, 1 Intel Xeon Model E5520, 2.26 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 80W processor with Heatsink, RoHS-6 Compliant.	X6270-X-14M2260	X6270-AA-14M2260

X6270 Memory Options:

Memory Rules:

- Do not populate any DIMM sockets next to an empty processor socket. Each processor contains its own separate memory controller.
- Each installed processor can support:
 - Minimum 1 dual-rank or single-rank DIMM
 - Maximum 9 dual-rank or single-rank DIMMs
- Populate DIMMs by location according to the following rules:
 - Populate the DIMM slots for each memory channel that are the farthest from the processor first. For example, populate memory slots D8/D5/D2 first; then D7/D4/D1 second; and finally D6/D3/D0.
 - Best practices for optimal performance is to populate SR, or DR DIMMs in sets of three for each processor, one per memory channel. However, installing DIMMs in increments of 1 (per processor) is fully supported.
 - In a two processor system the memory configurations for each installed processor must be identical.
 - Empty DIMM slots must be populated with DIMM slot filler panels (5879A). The configurator will auto add the proper quantity of DIMM slot filler panels. Note that a single processor configuration will support a maximum of 9 DIMMs. A two processor configuration will support a maximum of 18 DIMMs.
 - With the release of Sun Blade X6270 Server Module Software v2., 2 DIMMs per channel running at 1333MHz are fully supported if using 4GB/1333MHz DIMMs (and if the processors support 1333MHz memory). For additional guidance please reference the Sun Blade X6270 Server Module JTF (SunWIN Token # 557210).
 - For additional guidance on the Nehalem processor memory technology please visit this blog:
 - http://blogs.sun.com/jnerl/entry/update_to_configuring_and_optimizing

Description	X-Option	XATO
Sun Blade X6270 Server Module 4GB (1x4GB) Memory Kit, DDR3 1066MHz Registered ECC DIMM, RoHS-6 Compliant.	X4651A	4651A
Sun Blade X6270 Server Module 4GB (1x4GB) Memory Kit, DDR3 1333MHz Registered ECC DIMM, RoHS-6 Compliant.	X4654A	4654A
Sun Blade X6270 Server Module 2GB (1x2GB) Memory Kit, DDR3 1333MHz Registered ECC DIMM, RoHS-6	X4653A	4653A
Sun Blade X6270 Server Module 8GB (1x8GB) Memory Kit, DDR3 1066MHz Registered ECC DIMM, X-option, RoHS-6 Compliant.	X4652A	4652A

X6270 Storage Media Options:

Storage Media Rules:

The Sun Blade X6270 server module supports up to 4 internal hot-plug / hot-swap 2.5" SAS HDDs or SATA SSDs/HDDs . (Note: SATA HDDs are targeted to be available post RR.) Since HDDs and SSDs are not included as part of the base assembly, they must be ordered separately as XATO components or X-Options. The HDDs and SSDs used in the Sun Blade X6270 server module are mounted in Marlin brackets. Four SATA SSDs or HDDs can be installed without and additional components added to the server module. However, in this scenario the drives will not have any hardware RAID protection. If hardware RAID protection is required a RAID Expansion Module (REM) needs to be installed in the Server Module. In order to use SAS drives a REM is required. Also, Compact Flash media is available (option) as a boot option for operating systems that support compact flash boot.

- Empty drive bays must include a drive filler panel (6331A). The configurator will auto add the proper quantity of drive slot filler panels.
- Mixing of drive technologies (e.g., SAS & SATA) within a given RAID volume is not supported
- To provide HW RAID support for the internal SATA SSDs/HDDs you need to install a REM
- Installing SATA SSDs/HDDs without a REM will result in no hardware RAID protection
- To use SAS HDDs, you must install a REM
- Installation of a REM enables support for external storage devices (such as the Sun Blade Storage Module B18-AA) via the chassis midplane in conjunction with a NEM that supports storage protocols such as SAS

Description	X-option	XATO	REM
SAS HDDs			
146GB 10K RPM 2.5" SAS hard disk drive with Marlin bracket. RoHS-6.	XRB-SS2CF-146G10K	RB-SS2CF-146G10K	(X4607A (X)4620A
300GB 10K RPM 2.5" SAS hard disk drive with Marlin bracket. RoHS-6	XRA-SS2CF-300G10K	RA-SS2CF-300G10K	(X4607A (X)4620A
SATA HDDs & SSDs			
2.5" 32GB SATA SSD (Type: SLC) with Marlin bracket, RoHS-6	XRA-ST2CF-32G2SSD	RA-ST2CF-32G2SSD	(X4607A (X)4620A
2.5" 500GB / 7.2K SFF SATA Drive mounted in Marlin bracket	RA-ST2CF-500G7K	XRA-ST2CF-500G7K	TBD
Compact Flash Media			
16 GB Compact Flash Card; Used for flash based booting and OS image pre-loads. RoHS-5.	X4680A	4680A	N/A

X6270 Network Express Module Options:

NEM Rules:

NEMs provide "chassis/shelf wide" common I/O. NEMs should be used when all of the server modules within a chassis (or shelf) require the same network interface. For server module unique I/O requirements, ExpressModules should be used.

Depending on which communications protocols are being used there might be a requirement to install a Fabric Expansion Module (FEM) or RAID Expansion Module (REM) within the server module. Fabric Expansion Modules (FEM) are pluggable I/O modules for Sun Blade Server Modules. Their primary purposes are to provide on-board high performance I/O interfaces such as 10 Gigabit Ethernet and InfiniBand when paired with a Network Express Module (NEM) supporting the same I/O fabric.

XATO NEMs require the B22-C Chassis. Only the Sun Blade X6275-AA Server Modules are currently orderable with the B22-C Chassis.

Description	NEM X-option	NEM XATO	FEM	REM
Gigabit Ethernet				
Sun Blade 6048 GbE 12-port Pass-Thru NEM. RoHS-5.	X4731A	N/A	N/A	N/A

X6270 PCIe ExpressModule Options:

EM Rules: You can select a maximum of two PCIe EMs (per Server Module) from the list shown below: XATO EMs require the B22-C Chassis. Only the Sun Blade X6275-AA Server Modules are currently orderable with the B22-C Chassis.

Description	X-option	XATO
Gigabit Ethernet ExpressModules		
Sun PCI-E Express Dual Port Gigabit Ethernet MMF (fiber) ExpressModule RoHS-6 compliant	X7283A-Z	7283A-Z
Sun x4 PCI-Express Quad Gigabit Ethernet UTP ExpressModule, OEM from Intel,RoHS-6	X7284A-Z	7284A-Z
Fibre Channel ExpressModules		
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (QLogic), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-QB4-Z	SG-PCIE2FC-QB4-Z
Sun Storagetek PCI-E Enterprise 4Gb FC Host Bus Adapter (Emulex), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-EB4-Z	SG-PCIE2FC-EB4-Z
Combination Fibre Channel & Gigabit Ethernet ExpressModules		
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex	SG-XPCIE2FCGBE-E-Z	SG-PCIE2FCGBE-E-Z
Sun StorageTek Dual 4Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIE2FCGBE-Q-Z	SG-PCIE2FCGBE-Q-Z
Sun StorageTek Dual 8Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Qlogic	SG-XPCIEFCGBE-Q8-Z	SG-PCIEFCGBE-Q8-Z
Sun StorageTek Dual 8Gb FC Dual GbE HBA in ExpressModule form factor, RoHS-6 compliant, Emulex	SG-XPCIEFCGBE-E8-Z	SG-PCIEFCGBE-E8-Z
Ten Gigabit Ethernet ExpressModules		
Sun Dual 10GbE SFP+ PCIe ExpressModule incorporating Intel 82598 10 Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5	X1108A-Z	1108A-Z
Sun Dual 10GbE SFP+ PCIe 2.0 ExpressModule incorporating Intel82599 10Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5. ATO-option	X1110A-Z	1110A-Z
InfiniBand ExpressModules		
Sun Blades - (qMirage) Quad Data Rate InfiniBand-Host Channel Adapter PCI-Express Gen 2 Express Module.	X4219A-Z	4219A-Z
SAS (Serial Attached SCSI) ExpressModules		
Sun Storagetek (TM) SAS Host Bus Adapter, ExpressModule form factor, Eight Port, RoHS 6 compliant	SG-XPCIE8SAS-EB-Z	SG-PCIE8SAS-EB-Z

X6270 Documentation Options:

Documentation Rules:

<i>Description</i>	<i>X-option</i>	<i>XATO</i>
Sun Blade X6270 Server Module Media & Documentation Kit	X6270-X-MEDDOCKIT	N/A

X6270 Pre-load Software Options:

Pre-load Rules:

If a customer orders an ATO blade with an ATO hard drive (no compact flash ordered) these Pre-load images are offered as an option. If selected, the respective image will be installed on the hard drive.

<i>Description</i>	<i>X-option</i>	<i>XATO</i>
For Sun Blade X6270 Server Module, Solaris 10 x64 Preinstalled on Hard Disk Drive	N/A	X6270-AA-SOLARIS10

Sun Blade X6275 IB Server Module

Description	PTO	XATO
Sun Blade X6275 IB Server Module Base Blade Assembly, With on-board Quad Data Rate InfiniBand Host Channel Adapter, No Processor, No memory, No Sun Flash Module, No Docs. Factory Integration., RoHS-6 Compliant.	N/A	X6275-AA

X6275 IB Processor Options:

Processor Rules:

Select 1 processor kit (4 processors) per server module. Each compute node will be populated with two processors.

Description:	X-option	XATO
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model X5570, 2.93 GHz, Quad-Core, 8MB Cache, 6.4 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 95W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2930	X6275-AA-14M2930
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model X5560, 2.80 GHz, Quad-Core, 8MB Cache, 6.4 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 95W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2800	X6275-AA-14M2800
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model E5540, 2.53 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 80W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2530	X6275-AA-14M2530
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model L5520, 2.26 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 60W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14L2260	X6275-AA-14L2260
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model E5520, 2.26 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 80W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2260	X6275-AA-14M2260

X6275 IB Memory Options:

Memory Rules:

The memory controller is integrated onto the Xeon 5500 processor die. There are 3 DDR3 channels connected to the memory controller. The memory controllers can support single and dual rank DIMMs. Up to 2 DIMMs can be connected to each DDR3 channel for a total of 6 DIMMs per processor (12 DIMMs per compute node, 24 DIMMs per server module).

The memory DIMM population rules are as follows:

- Only symmetric memory configurations are supported
- DIMMs must be ordered in quantities of 12 or 24 per server module (blade)
- Empty DIMM slots must be occupied with DIMM slot filler panels
- The first set of 12 DIMMs have to be identical – both in DIMM capacity and memory speed.
- The second set of 12 DIMMs does not have to have the same capacity as the first set, but within the set, all 12 DIMMs must have the same capacity and memory speed.
- Note: For best performance, the second set of 12 DIMMs should be identical to the first set of 12 DIMMs.
- DIMM slots D5/D3/D1 is the 1st set to be populated. DIMM slots D4/D2/D0 is the 2nd set to be populated (Memory bandwidth will drop to 1066MHz even when 1333MHz DIMMs are populated. This is a Xeon 5500 processor architecture limitation).
- With ILOM 3 support the Sun Blade X6275 IB Server Module can support up to 2 DIMMs per channel running at 1333MHz as long as the DIMMs are 4GB in size.
- Note: D5 & D4 is memory channel 1, D3 & D2 are memory channel 2, D1 and D0 are memory channel 3
- Both processors on each node as well as both nodes have to be populated identically
- Empty DIMM slots must be populated with DIMM slot filler panels (5879A). The configurator will auto add the proper quantity of DIMM slot filler panels.
- Additionally, not all processors support memory speeds of 1333MHz. For additional guidance please reference the Sun Blade X6275 Server Module JTF (SunWIN Token # 557211).
- For additional guidance on the Nehalem processor memory technology please visit this blog: http://blogs.sun.com/jnerl/entry/update_to_configuring_and_optimizing

Description:	X-Option	XATO
Sun Blade X6275 Server Module 2GB (1 x 2GB) Memory Kit, DDR3 1333MHz Registered ECC DIMM, RoHS 6 Compliant.	X4673A	4673A
Sun Blade X6275 Server Module 4GB (1 x 4GB) Memory Kit, DDR3 1333MHz Registered ECC DIMM, RoHS 6 Compliant.	X4674A	4674A
Sun Blade X6275 Server Module 8GB (1 x 8GB) Memory Kit, DDR3 1066MHz Registered ECC DIMM, RoHS 6 Compliant	X4672A	4672A

X6275 IB Storage Media:

Storage Media Rules:

The Sun blade X6275 Server Module is diskless. Each of the two compute nodes contain a 3 Gb/sec SATA interface to support an internal Sun Flash Module. Max qty. is 1 Flash Module per compute node (2 total per server module). The flash module kit contains 2 flash modules. Order 1 flash module kit per server module (blade). SATA-based Sun Flash Modules are available as options to provide storage acceleration and a reliable, low power, secure boot source for this power efficient (diskless) server module. Note that the Sun Blade X6275 Server Module does not support REMs or FEMs.

Description:	X-option	XATO	REM
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X6275 IB Storage Media:

Storage Media Rules:

The Sun blade X6275 Server Module is diskless. Each of the two compute nodes contain a 3 Gb/sec SATA interface to support an internal Sun Flash Module. Max qty. is 1 Flash Module per compute node (2 total per server module). The flash module kit contains 2 flash modules. Order 1 flash module kit per server module (blade). SATA-based Sun Flash Modules are available as options to provide storage acceleration and a reliable, low power, secure boot source for this power efficient (diskless) server module. Note that the Sun Blade X6275 Server Module does not support REMs or FEMs.

Sun Flash Module - SATA			
Sun Flash Module Kit 24GB SATA-based, 2x 24GB Sun Flash Modules for Sun Blade X6275 Server Module, RoHS-6 Compliant.	X4676A	4676A	N/A

X6275 IB Network Express Module Options:

NEM Rules:

XATO NEMs require the B22-C Chassis. Both the Sun Blade X6275 IB Server Module (X6275-AA) and the Sun Blade X6275 GbE Server Module (X6275-BA)s are orderable with the B22-C Chassis. The Sun Blade X6275 Server Module does not support REMs or FEMs. *Note that if a QDR NEM (X)5500A is ordered for a 6048 shelf the only Server Modules that can be ordered for that shelf is the Sun Blade X6275-IB Server Module. The Sun Blade X6440 Server Module no longer supports the SunBlade 6048 InfiniBand (IB) Switched Network Express Module and the IBFEM, as of October 6, 2009.

Description	NEM X-option	NEM XATO	FEM	REM
SunBlade 6048 IB switched network express module 72port, 4xQDR Infiniband double-height leaf switch combined w/24 pass-thru RJ45 GigE ports.NEM contains (2)36-port QDR IB switches that are coupled to the Blade HCA ports, 24 4xQDR switched downlinks. 30external 4xports are consolidated into 10 12x CXP connectors for use w/either 12x-12x cable or 12x-4x 3-way splitter cable. Short "jumper" cable avail. to increase the number of links between the switch chips in large CLOS configurations	X5500A	5500A	FEM Not Required: The X6275's on-board IB MT25408 controllers are used	N/A

X6275 IB PCIe ExpressModule Options:

EM Rules:

You can select a maximum of two PCIe EMs (per Server Module) from the list shown below:

XATO EMs require the B22-C Chassis. Only the Sun Blade X6275-AA Server Modules are currently orderable with the B22-C Chassis.

Description	ExpressModule X-option	ExpressModule XATO
Sun x4 PCI-Express Quad Gigabit Ethernet UTP ExpressModule (Intel),RoHS-6	X7284A-Z	7284A-Z
Sun StorageTek Dual 4Gb FC Dual GbE ExpressModule (Qlogic), RoHS-6	SG-XPCIE2FCGBE-Q-Z	N/A
Sun StorageTek Dual 4Gb FC Dual GbE ExpressModule (Emulex), RoHS-6	SG-XPCIE2FCGBE-E-Z	N/A
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (Emulex), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-EB4-Z	SG-PCIE2FC-EB4-Z
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (QLogic), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-QB4-Z	SG-PCIE2FC-QB4-Z
Sun Storagetek (TM) SAS Host Bus Adapter, ExpressModule form factor, Eight Port, RoHS 6 compliant	SG-XPCIE8SAS-EB-Z	SG-PCIE8SAS-EB-Z
Sun Dual 10GbE SFP+ PCIe ExpressModule incorporating Intel 82598 10 Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5.	X1108A-Z	1108A-Z
Sun Blades - (qMirage) Quad Data Rate InfiniBand-Host Channel Adapter PCI-Express Gen 2 Express Module.	X4219A-Z	4219A-Z

X6275 Documentation Options:

Documentation Rules:

<i>Description</i>	<i>X-option</i>	<i>XATO</i>
Sun Blade X6275 Server Module Documentation Kit	X6275-X-DOCKIT	N/A

Sun Blade X6275 GbE Server Module

Description	PTO	XATO
Base Blade Assembly for the Sun Blade X6275-GbE Server Module, No Processors, No memory, No Sun Flash Modules, No InfiniBand HCA, No Docs, RoHS-5. For Factory Integration	N/A	X6275-BA

X6275 GbE Processor Options:

Processor Rules:

Select 1 processor kit (4 processors) per server module. Each compute node will be populated with two processors.

Description:	X-option	XATO
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model X5570, 2.93 GHz, Quad-Core, 8MB Cache, 6.4 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 95W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2930	X6275-AA-14M2930
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model X5560, 2.80 GHz, Quad-Core, 8MB Cache, 6.4 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 95W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2800	X6275-AA-14M2800
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model E5540, 2.53 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 80W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2530	X6275-AA-14M2530
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model L5520, 2.26 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 60W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14L2260	X6275-AA-14L2260
Sun Blade X6275 Server Module Processor Kit, 4 Intel Xeon Model E5520, 2.26 GHz, Quad-Core, 8MB Cache, 5.86 GT/s QuickPath Interconnect, Turbo Boost Technology, Hyper-Threading Technology, 80W processors with Heatsinks, RoHS-6 Compliant.	X6275-X-14M2260	X6275-AA-14M2260

X6275 GbE Memory Options:

Memory Rules:

The memory controller is integrated onto the Xeon 5500 processor die. There are 3 DDR3 channels connected to the memory controller. The memory controllers can support single and dual rank DIMMs. Up to 2 DIMMs can be connected to each DDR3 channel for a total of 6 DIMMs per processor (12 DIMMs per compute node, 24 DIMMs per server module).

The memory DIMM population rules are as follows:

- Only symmetric memory configurations are supported
- DIMMs must be ordered in quantities of 12 or 24 per server module (blade)
- Empty DIMM slots must be occupied with DIMM slot filler panels
- The first set of 12 DIMMs have to be identical – both in DIMM capacity and memory speed.
- The second set of 12 DIMMs does not have to have the same capacity as the first set, but within the set, all 12 DIMMs must have the same capacity and memory speed.
- Note: For best performance, the second set of 12 DIMMs should be identical to the first set of 12 DIMMs.
- DIMM slots D5/D3/D1 is the 1st set to be populated. DIMM slots D4/D2/D0 is the 2nd set to be populated (Memory bandwidth will drop to 1066MHz even when 1333MHz DIMMs are populated. This is a Xeon 5500 processor architecture limitation).
- With ILOM 3 support the Sun Blade X6275 IB Server Module can support up to 2 DIMMs per channel running at 1333MHz as long as the DIMMs are 4GB in size.
- Note: D5 & D4 is memory channel 1, D3 & D2 are memory channel 2, D1 and D0 are memory channel 3
- Both processors on each node as well as both nodes have to be populated identically
- Empty DIMM slots must be populated with DIMM slot filler panels (5879A). The configurator will auto add the proper quantity of DIMM slot filler panels.
- Additionally, not all processors support memory speeds of 1333MHz. For additional guidance please reference the Sun Blade X6275 Server Module JTF (SunWIN Token # 557211).
- For additional guidance on the Nehalem processor memory technology please visit this blog:
http://blogs.sun.com/jnerl/entry/update_to_configuring_and_optimizing

Description:	X-Option	XATO
Sun Blade X6275 Server Module 2GB (1 x 2GB) Memory Kit, DDR3 1333MHz Registered ECC DIMM, RoHS 6 Compliant.	X4673A	4673A
Sun Blade X6275 Server Module 4GB (1 x 4GB) Memory Kit, DDR3 1333MHz Registered ECC DIMM, RoHS 6 Compliant.	X4674A	4674A
Sun Blade X6275 Server Module 8GB (1 x 8GB) Memory Kit, DDR3 1066MHz Registered ECC DIMM, RoHS 6 Compliant	X4672A	4672A

X6275 GbE Storage Media:

Storage Media Rules:

The Sun blade X6275 Server Module is diskless. Each of the two compute nodes contain a 3 Gb/sec SATA interface to support an internal Sun Flash Module. Max qty. is 1 Flash Module per compute node (2 total per server module). The flash module kit contains 2 flash modules. Order 1 flash module kit per server module (blade). SATA-based Sun Flash Modules are available as options to provide storage acceleration and a reliable, low power, secure boot source for this power efficient (diskless) server module. Note that the Sun Blade X6275 Server Module does not support REMs or FEMs.

Description:	X-option	XATO	REM
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X6275 GbE Storage Media:

Storage Media Rules:

The Sun blade X6275 Server Module is diskless. Each of the two compute nodes contain a 3 Gb/sec SATA interface to support an internal Sun Flash Module. Max qty. is 1 Flash Module per compute node (2 total per server module). The flash module kit contains 2 flash modules. Order 1 flash module kit per server module (blade). SATA-based Sun Flash Modules are available as options to provide storage acceleration and a reliable, low power, secure boot source for this power efficient (diskless) server module. Note that the Sun Blade X6275 Server Module does not support REMs or FEMs.

Sun Flash Module - SATA			
Sun Flash Module Kit 24GB SATA-based, 2x 24GB Sun Flash Modules for Sun Blade X6275 Server Module, RoHS-6 Compliant.	X4676A	4676A	N/A

X6275 GbE Network Express Module Options:

NEM Rules:

The Sun Blade 6048 Modular System GbE 12-Port Pass-Thru Network Express Module , Part Number (X)4731A is the only NEM supporting the Sun Blade X6275 GbE Server Modules, on the Sun Blade 6048 Chassis. This NEM is available for order via ATO or X-Option. Please note this important rule: if the Sun Blade X6275 GbE Server Module is ordered via ATO, the customer must order two NEMs (4731A) for every one server module.

Description	NEM X-option	NEM XATO	FEM	REM
Sun Blade 6048 Modular System GbE 12-Port Pass-Thru Network Express Module	X4731A	4731A	FEM Not Required: The X6275-GbE Server Module uses its on-board Intel 82567 GbE controller	N/A

X6275 GbE PCIe ExpressModule Options:

EM Rules:

You can select a maximum of two PCIe EMs (per Server Module) from the list shown below: XATO EMs require the B22-C Chassis. Both the Sun Blade X6275 IB Server Module (X6275-AA) and the Sun Blade X6275 GbE Server Module (X6275-BA)s are orderable with the B22-C Chassis.

Description	ExpressModule X-option	ExpressModule XATO
Gigabit Ethernet ExpressModules		
Sun x4 PCI-Express Quad Gigabit Ethernet UTP ExpressModule (Intel),RoHS-6	X7284A-Z	7284A-Z
Combination Fiber Channel & Gigabit Ethernet Express Modules		
Sun StorageTek Dual 4Gb FC Dual GbE ExpressModule (Qlogic), RoHS-6	SG-XPCIE2FCGBE-Q-Z	N/A
Sun StorageTek Dual 4Gb FC Dual GbE ExpressModule (Emulex), RoHS-6	SG-XPCIE2FCGBE-E-Z	N/A
Fiber Channel ExpressModules		
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (Emulex), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-EB4-Z	SG-PCIE2FC-EB4-Z
Sun Storagetek PCIe Enterprise 4Gb FC Host Bus Adapter (QLogic), ExpressModule Form Factor, Dual Port, RoHS 6 compliant	SG-XPCIE2FC-QB4-Z	SG-PCIE2FC-QB4-Z
SAS ExpressModules		

Sun Storagetek (TM) SAS Host Bus Adapter, ExpressModule form factor, Eight Port, RoHS 6 compliant	SG-XPCIE8SAS-EB-Z	SG-PCIE8SAS-EB-Z
Ten Gigabit Ethernet ExpressModules		
Sun Dual 10GbE SFP+ PCIe ExpressModule incorporating Intel 82598 10 Gigabit Ethernet controller and supporting pluggable SFP+ Transceivers. ROHS-5.	X1108A-Z	1108A-Z
Infiniband ExpressModules		
Sun Blades - (qMirage) Quad Data Rate InfiniBand-Host Channel Adapter PCI-Express Gen 2 Express Module.	X4219A-Z	4219A-Z

X6275 Documentation Options:

Documentation Rules:

<i>Description</i>	<i>X-option</i>	<i>XATO</i>
Sun Blade X6275 Server Module Documentation Kit	X6275-X-DOCKIT	N/A

STEP 5: SOFTWARE OPTIONS

Note: All part numbers of operating systems from Red Hat, SuSE, and VMWare have been EOL'd. LOD was 3/1/2010

STEP 6: STORAGE OPTIONS

Consider Sun Storage products, such as Sun disk arrays, tape libraries and software to complement your Sun Blade 6048 Modular System.

STEP 7: SERVICE OPTIONS

Enterprise Installation Services (EIS) are offered worldwide.

Part Number	Enterprise Installation Services (EIS)
EIS-SB6048-48	Install SB-6048 and up to 48 Blade Servers
EIS-SB6048-48-AH	Install SB-6048 and up to 48 Blade Servers, After Hours
EIS-SB6048-24	Install SB-6048 and up to 24 Blade Servers
EIS-SB6048-24-AH	Install SB-6048 and up to 24 Blade Servers, After Hours
EIS-SBCHSSUPG-E	Local business hour installation of Sun Blade 6048 and 6000 Chassis Gen 2 Upgrade Kit part numbers: B22-B-MP-UPGKIT and A90-B-MP-UPGKIT
EIS-SBCHSSUPG-E-AH	After local business hour Installation of Sun Blade 6048 and 6000 Chassis Gen 2 Upgrade Kit part numbers: B22-B-MP-UPGKIT and A90-B-MP-UPGKIT
EIS-DEINSTSBCSUP-E	Local business hour de-Installation of Sun Blade 6048 and 6000 Chassis Gen 2 Upgrade Kit part numbers: B22-B-MP-UPGKIT and A90-B-MP-UPGKIT

The Sun Blade 6048 modular system comes with a 3-year next business day hardware warranty. Upgrading to Same Business Day (SBD) or 7x24 is economical due to chassis-based service pricing where one price covers the cost of all components within the chassis. It's the same price, whether you buy one server module or forty-eight, and whatever mix of I/O modules, memory and disk you select. If you add more modules later, they're covered under the existing chassis contract for the duration of that contract.

Part Number	Warranty Upgrade to SunSpectrum Service
for Sun Blade 6048 (B22-B)	
IWU-SB-6048-1S	Upgrade to 1 year SunSpectrum Silver for Sun Blade 6048
IWU-SB-6048-2S	Upgrade to 2 year SunSpectrum Silver for Sun Blade 6048
IWU-SB-6048-3S	Upgrade to 3 year SunSpectrum Silver for Sun Blade 6048
IWU-SB-6048-1G	Upgrade to 1 year SunSpectrum Gold for Sun Blade 6048
IWU-SB-6048-2G	Upgrade to 2 year SunSpectrum Gold for Sun Blade 6048
IWU-SB-6048-3G	Upgrade to 3 year SunSpectrum Gold for Sun Blade 6048
IWU-SB-6048-24-1G	Upgrade to 1 year SunSpectrum Gold 7x24 for Sun Blade 6048
IWU-SB-6048-24-2G	Upgrade to 2 year SunSpectrum Gold 7x24 for Sun Blade 6048
IWU-SB-6048-24-3G	Upgrade to 3 year SunSpectrum Gold 7x24 for Sun Blade 6048
IWU-SB-6048-1P	Upgrade to 1 year SunSpectrum Platinum for Sun Blade 6048
IWU-SB-6048-2P	Upgrade to 2 year SunSpectrum Platinum for Sun Blade 6048
IWU-SB-6048-3P	Upgrade to 3 year SunSpectrum Platinum for Sun Blade 6048
for Sun Blade 6048 Gen 2 (B22-C, B22-D)	
IWU-SB6048G2-1S	Upgrade to 1 year SunSpectrum Silver for Sun Blade 6048 Gen 2
IWU-SB6048G2-2S	Upgrade to 2 year SunSpectrum Silver for Sun Blade 6048 Gen 2
IWU-SB6048G2-3S	Upgrade to 3 year SunSpectrum Silver for Sun Blade 6048 Gen 2
IWU-SB6048G2-1G	Upgrade to 1 year SunSpectrum Gold for Sun Blade 6048 Gen 2

Part Number	Warranty Upgrade to SunSpectrum Service
IWU-SB6048G2-2G	Upgrade to 2 year SunSpectrum Gold for Sun Blade 6048 Gen 2
IWU-SB6048G2-3G	Upgrade to 3 year SunSpectrum Gold for Sun Blade 6048 Gen 2
IWU-SB6048G2-24-1G	Upgrade to 1 year SunSpectrum Gold 7x24 for Sun Blade 6048 Gen 2
IWU-SB6048G2-24-2G	Upgrade to 2 year SunSpectrum Gold 7x24 for Sun Blade 6048 Gen 2
IWU-SB6048G2-24-3G	Upgrade to 3 year SunSpectrum Gold 7x24 for Sun Blade 6048 Gen 2
IWU-SB6048G2-1P	Upgrade to 1 year SunSpectrum Platinum for Sun Blade 6048 Gen 2
IWU-SB6048G2-2P	Upgrade to 2 year SunSpectrum Platinum for Sun Blade 6048 Gen 2
IWU-SB6048G2-3P	Upgrade to 3 year SunSpectrum Platinum for Sun Blade 6048 Gen 2

Part Number	Warranty Upgrade to Windows Service
for Sun Blade 6048 (B22-B)	
IWU-SB-6048W-1S	Upgrade to 1 year Silver for Sun Blade 6048
IWU-SB-6048W-2S	Upgrade to 2 year Silver for Sun Blade 6048
IWU-SB-6048W-3S	Upgrade to 3 year Silver for Sun Blade 6048
IWU-SB-6048W-1G	Upgrade to 1 year Gold for Sun Blade 6048
IWU-SB-6048W-2G	Upgrade to 2 year Gold for Sun Blade 6048
IWU-SB-6048W-3G	Upgrade to 3 year Gold for Sun Blade 6048
IWU-SB-6048W-1P	Upgrade to 1 year Platinum for Sun Blade 6048
IWU-SB-6048W-2P	Upgrade to 2 year Platinum for Sun Blade 6048
IWU-SB-6048W-3P	Upgrade to 3 year Platinum for Sun Blade 6048
for Sun Blade 6048 Gen 2 (B22-C, B22-D)	
IWU-SB6048G2W-1S	Upgrade to 1 year Silver for Sun Blade 6048 Gen 2
IWU-SB6048G2W-2S	Upgrade to 2 year Silver for Sun Blade 6048 Gen 2
IWU-SB6048G2W-3S	Upgrade to 3 year Silver for Sun Blade 6048 Gen 2
IWU-SB6048G2W-1G	Upgrade to 1 year Gold for Sun Blade 6048 Gen 2
IWU-SB6048G2W-2G	Upgrade to 2 year Gold for Sun Blade 6048 Gen 2
IWU-SB6048G2W-3G	Upgrade to 3 year Gold for Sun Blade 6048 Gen 2
IWU-SB6048G2W-1P	Upgrade to 1 year Platinum for Sun Blade 6048 Gen 2
IWU-SB6048G2W-2P	Upgrade to 2 year Platinum for Sun Blade 6048 Gen 2
IWU-SB6048G2W-3P	Upgrade to 3 year Platinum for Sun Blade 6048 Gen 2

Part Number	Warranty Upgrade to Sun Hardware Only Same Business Day Service
for Sun Blade 6048 (B22-B)	
IWU-SB-6048-SD-1H	Upgrade to 1 year Sun HW Only SBD for Sun Blade 6048
IWU-SB-6048-SD-2H	Upgrade to 2 year Sun HW Only SBD for Sun Blade 6048

Part Number	Warranty Upgrade to Sun Hardware Only Same Business Day Service
IWU-SB-6048-SD-3H	Upgrade to 3 year Sun HW Only SBD for Sun Blade 6048
for Sun Blade 6048 Gen 2 (B22-C, B22-D)	
IWU-SB6048G2-SD-1H	Upgrade to 1 year Sun HW Only SBD for Sun Blade 6048 Gen 2
IWU-SB6048G2-SD-2H	Upgrade to 2 year Sun HW Only SBD for Sun Blade 6048 Gen 2
IWU-SB6048G2-SD-3H	Upgrade to 3 year Sun HW Only SBD for Sun Blade 6048 Gen 2

Part Number	Warranty Upgrade to Sun Hardware Only 7x24 Service
for Sun Blade 6048 (B22-B)	
IWU-SB-6048-24-1H	Upgrade to 1 year Sun HW Only 7x24 for Sun Blade 6048
IWU-SB-6048-24-2H	Upgrade to 2 year Sun HW Only 7x24 for Sun Blade 6048
IWU-SB-6048-24-3H	Upgrade to 3 year Sun HW Only 7x24 for Sun Blade 6048
for Sun Blade 6048 Gen 2 (B22-C, B22-D)	
IWU-SB6048G2-24-1H	Upgrade to 1 year Sun HW Only 7x24 for Sun Blade 6048 Gen 2
IWU-SB6048G2-24-2H	Upgrade to 2 year Sun HW Only 7x24 for Sun Blade 6048 Gen 2
IWU-SB6048G2-24-3H	Upgrade to 3 year Sun HW Only 7x24 for Sun Blade 6048 Gen 2

Part Number	Warranty Upgrade to Sun Hardware Only 7x24 Service – 2 hour response
for Sun Blade 6048 (B22-B)	
IWU-SB-6048-22-1H	Upgrade to 1 year Sun HW Only 7x24 for Sun Blade 6048
IWU-SB-6048-22-2H	Upgrade to 2 year Sun HW Only 7x24 for Sun Blade 6048
IWU-SB-6048-22-3H	Upgrade to 3 year Sun HW Only 7x24 for Sun Blade 6048
for Sun Blade 6048 Gen 2 (B22-C, B22-D)	
IWU-SB6048G2-22-1H	Upgrade to 1 year Sun HW Only 7x24 for Sun Blade 6048 Gen 2
IWU-SB6048G2-22-2H	Upgrade to 2 year Sun HW Only 7x24 for Sun Blade 6048 Gen 2
IWU-SB6048G2-22-3H	Upgrade to 3 year Sun HW Only 7x24 for Sun Blade 6048 Gen 2

Change Log:

Document Date	Change Summary
05/01/2009	Initial release of order menu including B22-C & B22-D (Gen 2) Chassis content
05/14/2009	Step 4: Removed Sun Blade T6300 Server Module content – product is nearing its LOD
05/20/2009	X6240 Server Module updates: <ul style="list-style-type: none"> •Added new processor option P/Ns (X6240-AA-14M2902 & X6240-X-14M2902) X6440 Server Module updates: <ul style="list-style-type: none"> •Added new processor option P/Ns (X6440-AA-24M2902 & X6440-X-24M2902) •Added Last Order Date (08/14/09) for processor option P/Ns (X6440-AA-24M2501 & X6440-X-24M2501) •Added Last Order Date (08/14/09) for PTO Configuration P/N X6440-44M2501-82
05/21/2009	X6450 Server Module updates: <ul style="list-style-type: none"> •Added support for these ExpressModule P/Ns (X1108A-Z & X4216A-Z)
05/29/2009	Sun Blade 6048 I/O Options: Network Express Modules update: <ul style="list-style-type: none"> •Removed DDR IB Switched NEM P/N X5196A-Z (impending EOL) Storage Media Options: <ul style="list-style-type: none"> •Indicate Last Order Date of 07/31/09 for P/Ns (X)RA-SS2CF-146G10K •Added P/N (X)RB-SS2CF-146G10K for Sun Blade X6240
06/01/2009	Network Express Modules update: <ul style="list-style-type: none"> •Removed support for X6240 & X6270 Server Modules from QDR IB Switched NEM (NEM P/Ns: X5500A & 5500A). The NEM is supported with the X6440 & X6275-AA Server Modules. •Added GbE controller information to NEM table.
06/09/2009	Sun Blade X6270 Server Module Storage Media Options updates: <ul style="list-style-type: none"> •Removed 146GB, 10k RPM SAS HDD P/Ns (X)RA-SS2CF-146G10K •Added 146GB, 10k RPM SAS HDD P/Ns (X)RB-SS2CF-146G10K •Added 300GB, 10k RPM SAS HDD P/Ns (X)RA-SS2CF-300G10K
06/18/2009	PCIe ExpressModule Interoperability table updated to reflect: Sun Blade X6250 Server Module ExpressModule update: <ul style="list-style-type: none"> •Removed QDR IB ExpressModule (X4219A-Z) – this EM is not supported with this Server Module Sun Blade X6450 Server Module ExpressModule update: <ul style="list-style-type: none"> •Removed QDR IB ExpressModule (X4219A-Z) – this EM is not supported with this Server Module •Removed DDR IB ExpressModule (X4216A-Z) – this EM is not supported with this Server Module
06/26/2009	Miscellaneous Chassis Options: <ul style="list-style-type: none"> •Availability of chassis X-Option Filler Panels (X4460A, X4461A, X4462A) Sun Blade X6450 Server Module: <ul style="list-style-type: none"> •Support for 32GB Compact Flash (5490A, X5490A)

07/02/2009	<p>Step 1:</p> <ul style="list-style-type: none"> •Removed PTO Chassis P/N B22-B. LOD is 07/02/09 <p>Sun Blade T6320 Storage Media Options</p> <ul style="list-style-type: none"> •73GB/10K SAS HDD P/Ns (X)RA-SS2CF-73G10K LOD is 07/31/09 <p>Sun Blade T6340 Storage Media Options:</p> <ul style="list-style-type: none"> •73GB/10K SAS HDD P/Ns (X)RA-SS2CF-73G10K LOD is 07/31/09 <p>Sun Blade X6250 Storage Media Options:</p> <ul style="list-style-type: none"> •73GB/10K SAS HDD P/Ns (X)RB-SS2CD-73G10KZ LOD is 07/31/09 <p>Sun Blade X6270 Memory Options:</p> <ul style="list-style-type: none"> •<i>Memory Rules Updated:</i> <ul style="list-style-type: none"> ◦With the release of Sun Blade X6270 Server Module Software v2., 2 DIMMs per channel running at 1333MHz are fully supported if using 4GB/1333MHz DIMMs (and if the processors support 1333MHz memory). For additional guidance please reference the Sun Blade X6270 Server Module JTF (SunWIN Token # 557210). ◦For additional guidance on the Nehalem processor memory technology please visit this blog: http://blogs.sun.com/jnerl/entry/configuring_and_optimizing_intel_xeon <p>Sun Blade X6275 Memory Options:</p> <ul style="list-style-type: none"> •<i>Memory Rules Updated:</i> <ul style="list-style-type: none"> ◦Additionally, not all processors support memory speeds of 1333MHz. For additional guidance please reference the Sun Blade X6275 Server Module JTF (SunWIN Token # 557211). ◦For additional guidance on the Nehalem processor memory technology please visit this blog: http://blogs.sun.com/jnerl/entry/configuring_and_optimizing_intel_xeon <p>Sun Blade X6450 Server Module Processor Options:</p> <ul style="list-style-type: none"> •Removed processor P/Ns X6450-X-22M2930 & X6450-AA-22M2930, LOD 07/03/09 <p>Software Options:</p> <ul style="list-style-type: none"> •Updated Red Hat Enterprise Linux Software P/Ns <ul style="list-style-type: none"> ◦Removed all existing P/Ns ◦Added 8 new PN/s •Updated all SUSE Software P/Ns <ul style="list-style-type: none"> ◦Removed "Media Only" P/Ns (SULIL-940C99MNS & SULIL-940C99N-NS) ◦Indicated LOD (09/11/09) for existing P/Ns ◦Added 6 new P/Ns •Updated VMware P/Ns <ul style="list-style-type: none"> ◦Indicated LOD (09/11/09) for existing P/Ns ◦Added 15 new P/Ns
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07/09/2009	<p>PCIe ExpressModule Interoperability table updated to reflect:</p> <ul style="list-style-type: none"> •Sun Blade X6275 Server Module ExpressModule update: <ul style="list-style-type: none"> ◦Indicated support for these additional ExpressModules: ◦Quad Port GbE ExpressModule (Intel): <ul style="list-style-type: none"> •P/N X7284A-Z & 7284A-Z ◦Combination Dual Port GbE/Dual Port Fibre Channel ExpressModules: <ul style="list-style-type: none"> •P/N SG-XPCIE-2FCGB-E-Z (Emulex) •P/N SG-XPCIE-2FCGB-Q-Z (Qlogic) ◦Dual Port Fibre Channel ExpressModule: <ul style="list-style-type: none"> •P/N SG-XPCIE2FC-EB4-Z & SG-PCIE2FC-EB4-Z (Emulex) <p>Sun Blade X6275 Server Module ExpressModule update:</p> <ul style="list-style-type: none"> •The following ExpressModules are now supported with the X6275 Server Module: <ul style="list-style-type: none"> ◦Quad Port GbE ExpressModule (Intel) <ul style="list-style-type: none"> •P/N X7284A-Z & 7284A-Z ◦Combination Dual Port GbE/Dual Port FC ExpressModules: <ul style="list-style-type: none"> •P/N SG-XPCIE2FCGBE-E-Z (Emulex) •P/N SG-XPCIE2FCGBE-Q-Z (Qlogic) ◦Dual Port Fibre Channel ExpressModule: <ul style="list-style-type: none"> •P/N SG-XPCIE2FC-EB4-Z & SG-PCIE2FC-EB4-Z (Emulex)
07/21/2009	<p>Step 1:</p> <ul style="list-style-type: none"> •Updated B22-C description to remove references to Sun Blade X6270 Server Modules as being supported as an ATO component within the B22-C chassis. Currently only the X6275-AA Server Modules are supported as ATO components within B22-C <p>Sun Blade T6320 Server Module Updates:</p> <ul style="list-style-type: none"> •Standard (PTO) Configuration updates: <ul style="list-style-type: none"> ◦Added P/Ns: X5710C, X5712C and X5713C ◦Updated X5710B, X5712B and X5713B with LOD = 10/23/09 •XATO Configuration updates: <ul style="list-style-type: none"> ◦Added P/Ns: A95-CA, A95-CC and A95-CD ◦Updated A95-BA, A95-BB, A95-BC and A95-BD with LOD=10/23/09 •Memory DIMM updates: <ul style="list-style-type: none"> ◦Updated XATO P/N 4200AF with LOD = 10/23/09 •Solaris & LDom software updates: <ul style="list-style-type: none"> ◦Added P/N 8066A ◦Updated P/N 8064A with LOD = 10/23/09 <p>Sun Blade T6340 Server Module Updates:</p> <ul style="list-style-type: none"> •Standard (PTO) Configuration updates: <ul style="list-style-type: none"> ◦Added P/Ns: T6340-261200B-82, T6340-281200B-B2 and T6340-281400B-B4 ◦Updated T6340-261200-81, T6340-281200-B2 and T6340-281400-B4 with LOD=10/23/09 •XATO Configuration updates: <ul style="list-style-type: none"> ◦Added P/Ns: T6340-AA261200B, T6340-AA281200B and T6340-AA281400B ◦Updated T6340-AA261200, T6340-AA281200 and T6340-AA281400 with LOD=10/23/09 •Memory DIMM updates: <ul style="list-style-type: none"> ◦Updated XATO P/N T6340-AA-21 with LOD=10/23/09 •Solaris & LDom software updates: <ul style="list-style-type: none"> ◦Added P/N T6340-AA-S10U7 ◦Updated P/N T6340-AA-SOL10 with LOD = 10/23/09

Sun Blade X6240 Server Module Updates:

•Standard (PTO) Configuration Updates:

◦Removed: X6240-24M2100-42, X6240-24M2300-82 and X6240-24L1900-42 LOD was 07/17/09

◦Updated P/Ns: X6240-24M2501-42 and X6240-24M2701-82 with LOD=10/23/09

•Base Assembly Updates:

◦Updated X6240-AA with LOD=10/23/09

◦Added P/N X6240-AB

•Processor Options Updates:

◦Removed: X6240-X-14M2100, X6240-AA-14M2100, X6240-X-14M2300, X6240-AA-14M2300, X6240-X-14L1900, X6240-AA-14L1900, X6240-X-14H2500 and X6240-AA-14H2500 LOD was 07/17/09

◦Updated P/Ns: X6240-X-14M2501, X6240-AA-14M2501, X6240-X-14M2701, X6240-AA-14M2701, X6240-X-14M2902 & X6240-AA-14M2902 with LOD=10/23/09

◦Added P/Ns: X6240-X-16M2603, X6240-AA-16M2603, X6240-X-16M2403, X6240-AA-16M2403, X6240-X-16M2203 and X6240-AA-16M2203

•Memory DIMM Updates:

◦Updated the memory rules to indicate that the new base blade assembly (X6240-AB) supports the use of 8GB DIMMs

◦Added 16GB Memory Kit (2x 8GB DIMMs) P/Ns: 4249A, X4249A

Sun Blade X6440 Server Module Updates:

•Standard (PTO) Configuration Updates:

◦Updated P/N: X6440-MM2701-B2 with LOD=10/23/09

•Base Assembly Updates:

◦Updated X6440-AA with LOD=10/23/09

◦Added P/N X6440-AB

•Processor Option Updates:

◦Removed: X6440-AA-24M2200 LOD was 07/17/09

◦Updated P/Ns: X6440-X-24M2701, X6440-AA-24M2701, X6440-X-24M2902, X6440-AA-24M2902 with LOD=10/23/09

◦Added P/Ns: X6440-X-26M2603, X6440-AA-26M2603, X6440-X-26M2403 and X6440-AA-26M2403

Sun Blade X6270 Server Module Updates:

•Memory DIMM Updates:

◦Added 2GB/1333MHz (4653A, X4653A) & 8GB/1066MHz (4652A, X4652A) – Note RRR of these DIMMs is scheduled for 08/18/09

09/01/2009

PCIe ExpressModule Interoperability table updated to reflect:

- InfiniBand EM P/Ns ((X)1288A-Z & (X)4216A-Z) LOD = 11/20/09

T6320 Server Module updates:

- Removed 73GB 10K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-73G10K & RA-SS2CF-73G10K) – LOD was on 07/31/09
- Removed 146GB 10K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-146G10K & RA-SS2CF-146G10K) – LOD was on 07/31/09
- Updated 73GB, 15K SAS HDD P/Ns (XRA-SS2CF-73G15K & RA-SS2CF-73G15K) - LOD=11/06/09

T6340 Server Module updates:

- Removed 73GB 10K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-73G10K & RA-SS2CF-73G10K) – LOD was on 07/31/09
- Removed 146GB 10K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-146G10K & RA-SS2CF-146G10K) – LOD was on 07/31/09
- Updated 73GB, 15K SAS HDD P/Ns (XRA-SS2CF-73G15K & RA-SS2CF-73G15K) – LOD=11/06/09
- Removed Documentation Options P/N (T6340-X-DOCKIT)

X6240 Server Module updates:

- Removed 146GB 10K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-146G10K & RA-SS2CF-146G10K) – LOD was on 07/31/09
- Updated X6240 Pre-Load Software Options to include OpenSolaris
 - OpenSolaris Pre-Load P/N (X6240-AA-OSOLARIS)
- Updated InfiniBand ExpressModule P/Ns (X1288A-Z & X4216A-Z) to indicate LOD=11/20/09
- Updated 73GB, 15K SAS HDD P/Ns (XRA-SS2CF-73G15K & RA-SS2CF-73G15K) – LOD=11/06/09

X6440 Server Module updates:

- Removed PTO Configuration P/N (X6440-44M2501-82) LOD was 08/14/09
- Removed processor option P/Ns (X6440-X-24M2501 & X6440-AA-24M2501) LOD was 08/14/09
- Updated InfiniBand ExpressModule P/Ns (X1288A-Z & X4216A-Z) to indicate LOD=11/20/09
- Updated X6440 Pre-Load Software Options to include OpenSolaris
 - OpenSolaris Pre-Load P/N (X6440-AA-OSOLARIS)

X6250 Server Module updates:

- Removed 73GB, 10K RPM SAS HDD P/Ns (XRB-SS2CD-73G10KZ & RB-SS2CD-73G10KZ) – LOD was on 07/31/09
- Updated 73GB, 15K RPM SAS HDD P/Ns (XRA-SS2CD-73G15K & RA-SS2CD-73G15K) – LOD = 11/06/09
- Removed 146GB, 10K RPM SAS HDD P/Ns (XRB-SS2CD-146G10KZ & RB-SS2CD-146G10KZ) LOD was on 07/31/09
- Added HDD P/Ns:
 - XRA-SS2CD-300G10K & RA-SS2CD-300G10K
 - XRB-SS2CD-146G10K & RB-SS2CD-146G10K
- Updated InfiniBand ExpressModule P/Ns (X1288A-Z & X4216A-Z) to indicate LOD=11/20/09

X6270 Server Module Updates:

- Updated John Nerl's blog URL:
http://blogs.sun.com/jnerl/entry/update_to_configuring_and_optimizing
- Updated 2GB/1333 Memory (4653A & X4653A) RRR Date = 09/15/09

09/16/2009

Sun Blade T6320 Server Module

•Removed 73GB 15K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-73G15K and RA-SS2CF-73G15K) – LOD was scheduled for 11/06/09. However, P/N must be removed on 9/16 because the supplier is out of stock.

Sun Blade T6340 Server Module

Removed 73GB 15K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-73G15K and RA-SS2CF-73G15K) – LOD was scheduled for 11/06/09. However, P/N must be removed on 9/16 because the supplier is out of stock

- Reduced the amount of disks orderable per T6340 module, from four to two
- Removed T6340 documentation kit (P/N T6340-X-DOCKIT). This part number has never been released.

X6240 Server Module

Removed 73GB 15K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-73G15K and RA-SS2CF-73G15K) – LOD was scheduled for 11/06/09. However, P/N must be removed on 9/16 because the supplier is out of stock

X6250 Server Module

Removed 73GB 15K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CD-73G15K and RA-SS2CF-73G15K) – LOD was scheduled for 11/06/09. However, P/N must be removed on 9/16 because the supplier is out of stock

X6270 Server Module

Removed 73GB 15K RPM 2.5" SAS disk drive P/Ns (XRA-SS2CF-73G15K and RA-SS2CF-73G15K) – LOD was scheduled for 11/06/09. However, P/N must be removed on 9/16 because the supplier is out of stock
– Add LOD of 12/18/09 to 4GB/1066 DIMMs (P/Ns 4651A & X4651A)

Removed these SUSE Linux Enterprise Server 9 Part Numbers since their LOD was 09/11/09

- SULIL-9-C929
- SULIL-9H-X929-NS
- SULIL-9P-C929
- SULIL-9S-C929
- SU3IL-9-C929
- SU3IL-9H-X929-NS
- SU3IL-9P-C929
- SU3IL-9S-C929

Removed these VMWare Part Numbers since their LOD was 09/11/09

- IS-VMW29-ENT-9999P
- IS-VMW29-ENT-9999S
- IS-VMW29-STD-9999P
- IS-VMW29-STD-9999S
- IS-VMW29-VCM-9999P
- IS-VMW29-VCM-9999S

10/2/2009	<p>Step 4 Added note to emphasize the importance of reading SunWin Token # 539275 to understand the maximum quantity of server blade modules allowed with and without PSU redundancy.</p> <p>Sun Blade X6440 Server Module Added note to announce X6440 no longer support the SunBlade 6048 InfiniBand (IB) Switched Network Express Module and the IBFEM , as of 10/6/2009.</p> <p>Sun Blade X6250 Server Module Added note to emphasize the Sun Blade X6250 Server Module has been EOL-announced</p> <p>Sun Blade X6450 Server Module Added note to emphasize the Sun Blade X6250 Server Module has been EOL-announced.</p> <p>Sun Blade X6275-IB Server Module Added note to mention both the Sun Blade X6275 IB Server Module (X6275-AA) and the Sun Blade X6275 GbE Server Module (X6275-BA)s are orderable with the B22-C Chassis.</p> <p>Sun Blade X6275-GbE Server Module Added note to announce the Sun Blade X6275-GbE Server Module is supported in the Sun Blade 6048 Chassis, as of 10/13/2009, with the Sun Blade 6048 Modular System GbE 12-Port Pass-Thru Network Express Module as its only NEM and customer must order two NEMs for every one server module. Added note to mention both the Sun Blade X6275 IB Server Module (X6275-AA) and the Sun Blade X6275 GbE Server Module (X6275-BA)s are orderable with the B22-C Chassis.</p>
10/21/2009	<p>Removed all references to T6300 since its LOD was 5/29/2009</p> <p>Step 3 Added X6275 GbE column to EM Table and NEM Table</p> <p>Sun Blade X6240 Server Module Added Six-Core AMD Opteron Model 2439 SE (2.8GHz, 6M L3, 105W) processor. Added Last Order Date of 01/01/10 to processor option: part numbers X6240-X-14L2301 and X6240-AA-14L2301 Added Last Order Date of 01/15/10 to memory option: part numbers 4261A & X4261A</p> <p>Sun Blade X6440 Server Module Added Last Order Date of 01/15/10 to memory option: Part numbers 4261A & X4261A <i>Revert to original position that the Sun Blade X6440 Server Module will support the SunBlade 6048 InfiniBand (IB) Switched Network Express Module and the IBFEM.</i></p> <p>Sun Blade X6270 Server Module Added Last Order Date of 01/15/10 to memory option: Part numbers 4650A & X4650A</p>

11/21/09

ExpressModules

Removed three InfiniBand EM part numbers (X1288A-Z, 1288A-Z, and X4126A-Z) since their LODs were 11/20/2009

Sun Blade T6320 Server Module

Removed these three PTOs (part numbers X5710B, X5712B, X5713B), these four ATO base assemblies (part numbers A95-BA, A95-BB, A95-BC, A95-BD), this FB-DIMM kit (part numbers 4200AF and X4200AF), this SW pre-install (part number 8064A) since their LODs were 10/23/2009

Sun Blade T6340 Server Module

Removed these three PTOs (part numbers T6340-261200-81, T6340-281200-B2, T6340-281400-B4), these three ATO base assemblies (part numbers T6340-AA261200, T6340-AA281200, T6340-AA281400), this FB-DIMM kit (part number T6340-AA-21), this SW pre-install (part number T6340-AA-SOL10) since their LODs were 10/23/2009

Sun Blade X6240 Server Module

Removed these two PTOs (part numbers X6240-24M2501-42, X6240-24M2701-82) and this ATO base assembly (X6240-AA) because since their LODs were 10/23/2009

Added AMD Opteron Processor Model 2376HE (part numbers X6240-AA-14L2301 & X6240-X-14L2301). Their LOD will be 1/1/2010

Added AMD Opteron Processor Model 2439SE (part numbers X6240-AA-16H2803 & X6240-X-16H2803). They were PRESTOed on 10/27/2009.

Sun Blade X6440 Server Module

Corrected error: X6440 does not work with ATO version of QDR IB Switched NEM (5500A)

Added AMD Opteron Processor Model 8376HE (part numbers X6440-AA-24L2301 & X6440-X-24L2301). Their LOD will be 1/1/2010.

Sun Blade X6270 Server Module

Added 2.5" 500GB / 7.2K SFF SATA Drive mounted in Marlin bracket

Sun Blade X6275 IB

Removed this DIMM kit (part number X4670A and 4670A) since their LODs were 11/20/2009

Sun Blade X6275 GbE

Corrected error: X6275 GbE does not work with QDR IB Switched NEM (X5500A)

Removed this DIMM kit (part number X4670A and 4670A) since their LODs were 11/20/2009

03/10/10

Sun Blade T6320 Updates:

Added back X4200AF and 4200AF since it was a mistake to remove them from MOD on 11/21/09.
Added 500GB SATA
Added these two EMs: SG-XPCIEFCGBE-Q8-Z, SG-XPCIEFCGBE-E8-Z

Sun Blade T6340 Updates:

Added back X4200AF and 4200AF since it was a mistake to remove them from MOD on 11/21/09.
Added these two EMs: SG-XPCIEFCGBE-Q8-Z, SG-XPCIEFCGBE-E8-Z

Sun Blade X6240 Updates:

Removed this CPU option (X6240-X-14L2301, X6240-AA-14L2301) since LOD was 1/10/2010.
Removed this DIMM (X4261A and 4261A) since LOD was 1/15/2010
Removed this OpenSolaris pre-install (X6240-AA-OSOLARIS) since LOD was 3/1/2010.

Sun Blade X6440 Updates:

Removed this CPU option (X6440-X-24L2301, X6440-AA-24L2301) since LOD was 1/10/2010.
Removed this DIMM (X4261A and 4261A) since LOD was 1/15/2010
Removed this OpenSolaris pre-install (X6440-AA-OSOLARIS) since LOD was 3/1/2010.

Sun Blade X6250 Updates:

Removed entire section since LOD was 1/1/10

Sun Blade X6270 Updates:

Removed this DIMM (X4650A and 4650A) since LOD was 1/15/2010
Added these two EMs: SG-XPCIEFCGBE-Q8-Z, SG-XPCIEFCGBE-E8-Z
removed this OpenSolaris pre-install (X6270-AA-OSOLARIS) since LOD was 3/1/2010.

Sun Blade X6450 Updates:

Removed entire section since LOD was 1/1/10

Step 5

Removed these Red Hat Enterprise Linux Part Numbers, since their LOD was 2/1/10: RHEL-1YR-STD, RHEL-3YR-STD, RHEL-1YR-PREM, RHEL-3YR-PREM, RHEL-ADV-1YR-STD, RHEL-ADV-3YR-STD, RHEL-ADV-1YR-PREM, RHEL-ADV-3YR-PREM,

Removed these SuSE Linux Enterprise Server Part Numbers, since their LOD was 2/1/10: SLES1-BLADE-BASIC, SLES1-BLADE-STND, SLES1-BLADE-PREM, SLES3-BLADE-BASIC, SLES3-BLADE-STND, SLES3-BLADE-PREM

Removed these Windows Part Numbers, since their LOD was 2/1/10: 8119A, 8125A, 8126A, 8127A, 8128A, 8129A,

Removed these VMWare Part Numbers, since their LOD was 2/1/10: IS-VMW-ESSPL-STD, IS-VMW-ESSPL-PRM, IS-VMW-ADV-STD, IS-VMW-ADV-PRM, IS-VMW-ENT-STD, IS-VMW-ENT-PRM, IS-VMW-ENTPL-PRM, IS-VMW-VC-PRM, IS-VMW-VCACC-PRM, IS-VMW-ADVA6-PRM, IS-VMW-ENTPLA6-PRM, IS-VMW-ENTPLA8-PRM, IS-VMW-VDISTAR-PRM, IS-VMW-VDIENT-PRM,

