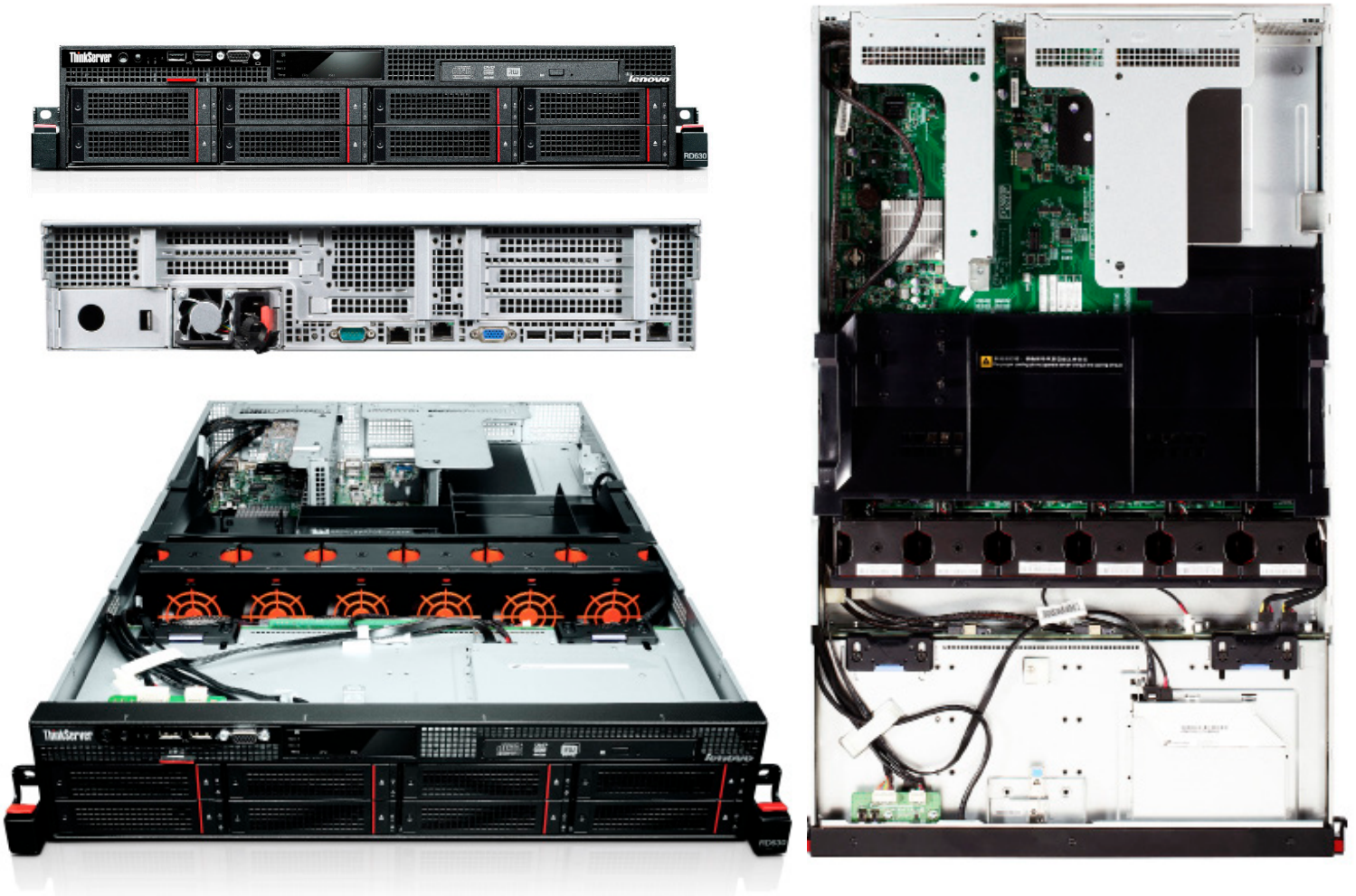


## ThinkServer RD630 Photography - 3.5" Disk Bay \*

\* Some models in pictures below contain optional add-in ethernet adapter, please see O-RDS for more RD630 accessories

# ThinkServer™



- Up to two Intel® Xeon® E5-2600 series processors, up to 8 cores/16 threads per processor
- Up to 320GB ECC RDIMM memory (20x16GB) or 256GB ECC LV RDIMM memory (16x16GB)
- Up to eight 3.5" hot-swap disk bays
- Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter
- Up to two power supplies with redundant, hot-swap, 80 PLUS® Gold qualified
- Up to six fans (5+1 redundant), hot-swap



## ThinkServer RD630 Photography - 2.5" Disk Bay\*

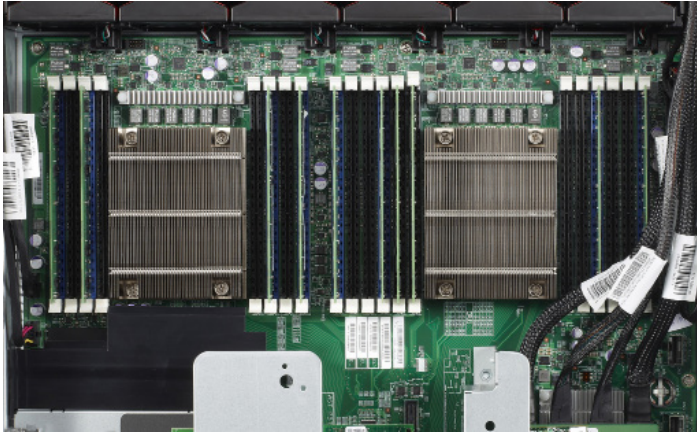
\* Some models in pictures below contain optional add-in ethernet adapter, please see O-RDS for more RD630 accessories



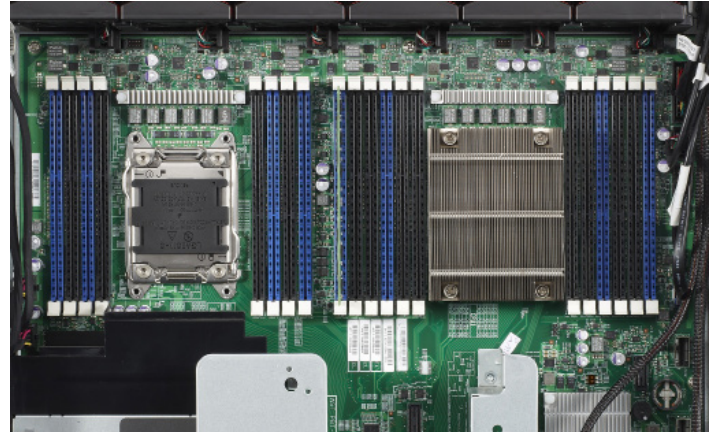
- Up to two Intel® Xeon® E5-2600 series processors, up to 8 cores/16 threads per processor
- Up to 320GB ECC RDIMM memory (20x16GB) or 256GB ECC LV RDIMM memory (16x16GB)
- Up to sixteen 2.5" hot-swap disk bays
- Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter
- Up to two power supplies with redundant, hot-swap, 80 PLUS® Gold qualified
- Up to six fans (5+1 redundant), hot-swap



# ThinkServer RD630 Photography - Detail I



Dual processors



Single processor



2.5" Hot-swap disk bay



2.5" Hot-swap disk bay



2.5" Hot-swap SAS 6.0Gb/s hard drive



3.5" Hot-swap SAS 6.0Gb/s hard drive



ThinkServer RAID 700 Adapter with battery  
(LSI® SAS 9260-8i with iBBU08)



ThinkServer RAID 700 Adapter with battery  
(LSI SAS 9260-8i with iBBU08)



ThinkServer 800W Hot-Swap power supply  
for ThinkServer RD530/RD630  
(80 PLUS® Gold qualified,  
redundant with two power supplies)



Intelligent Diagnostics Module Premium



ThinkServer RD630 rear I/O ports



# ThinkServer RD630 with 3.5" Disk Bay (2579) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor(s)	Memory (MHz/type)	Memory DIMMs	Pre-conf RAID	Disk controller	Disk(s)	Disk bays	Disk type	SATA optical	Intelligent Diagnostics	TPM	System mgmt	Cable mgmt	Preload OS	PSU qty
2579-A3G	1xE5-2640	1333MHz RDIMM	1x4GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	1
2579-A5G	1xE5-2650	1333MHz RDIMM	2x8GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2579-A7G	1xE5-2670	1333MHz RDIMM	1x16GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2

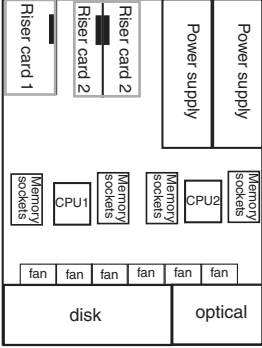
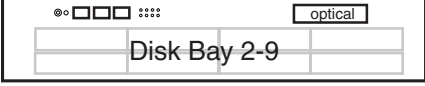
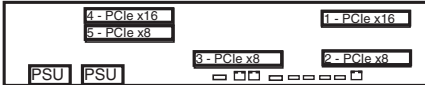
Limited warranty	<b>3-year parts and labor</b>		<b>2U Rack top</b>							
Processor	Up to two processors, one or two processors standard, <b>Intel® Xeon® E5-2640 processor (6C/12T, 2.5GHz, 15MB, 7.2 GT/s QPI x2)</b> , Turbo Boost 2.0 (up to 3.0GHz), 4-channel DDR3 memory controller (up to 1333MHz) <b>Intel Xeon E5-2650 processor (8C/16T, 2.0GHz, 20MB, 8.0 GT/s QPI x2)</b> , Turbo Boost 2.0 (up to 2.8GHz), 4-channel DDR3 memory controller (up to 1600MHz) <b>Intel Xeon E5-2670 processor (8C/16T, 2.6GHz, 20MB, 8.0 GT/s QPI x2)</b> , Turbo Boost 2.0 (up to 3.3GHz), 4-channel DDR3 memory controller (up to 1600MHz)									
Implementation	Two LGA2011 sockets									
Memory	RDIMM or LV RDIMM, DDR3, ECC, 4-channel per processor, 240-pin; <i>RDIMM:</i> twenty sockets (12 sockets for CPU1, 8 sockets for CPU2), 320GB max (20x16GB) <i>LV RDIMM:</i> sixteen sockets (8 of 12 sockets available for CPU1, 8 sockets for CPU2), 256GB max (16x16GB)									
Additional memory disclaimers	<ul style="list-style-type: none"> <li>Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs</li> <li>Over twelve RDIMMs requires dual processors</li> <li>Over eight LV RDIMMs requires dual processors</li> <li>Mixing of RDIMM and LV RDIMM is not supported</li> </ul>		<p><b>Front</b></p>							
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz		<p><b>Rear</b></p>							
Disk bays	Eight 3.5" hot-swap SATA/SAS disk bays		<p><i>Slot 4, 5 are available on dual processors models only</i></p>							
Disk controller	<b>RAID 500:</b> ThinkServer RAID 500 adapter (LSI SAS 9240-8i), PCI Express® bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support <i>Upgrade for 500:</i> Additional upgrade key for RAID 500 adapter, add RAID 5, 50 support <b>RAID 700:</b> ThinkServer RAID 700 adapter (LSI SAS 9260-8i), PCI Express bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5, 6, 10, 50, 60 support <i>Battery for 700:</i> Intelligent Battery Backup Unit (iBBU08) for RAID 700		<p><b>Mechanical</b></p> <ul style="list-style-type: none"> <li>2U rack</li> <li>19"W x 28.9"D x 3.45"H (with rack handles)</li> <li>482.4mm W x 734mm D x 87.6mm H (with rack handles)</li> <li>26.5 kg (58.42 lb) when fully configured</li> </ul>							
RAID Support	Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter		<p><b>Disk Bays</b></p> <table border="1"> <tr> <td>Bay 1</td> <td>5.25", 0.5" high, external,</td> <td>for optical</td> </tr> <tr> <td>Bay 2-9</td> <td>3.5", 1" high, external,</td> <td>for disk</td> </tr> </table>		Bay 1	5.25", 0.5" high, external,	for optical	Bay 2-9	3.5", 1" high, external,	for disk
Bay 1	5.25", 0.5" high, external,	for optical								
Bay 2-9	3.5", 1" high, external,	for disk								
Disk(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" SAS: SAS 6.0Gb/s, 15000 rpm		<p><b>Expansion Slots</b></p> <p>Slot 1: half-length, full-height, PCI Express 3.0 x16            Slot 2: half-length, full-height, PCI Express 3.0 x8            Slot 3: Low Profile, PCI Express 3.0 x8  <i>Slot 4-5 are available on dual processors models:</i>            Slot 4: half-length, full-height, PCI Express 3.0 x16 (x8 elec)            Slot 5: half-length, full-height, PCI Express 3.0 x8</p>							
Tape drive	None		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>Security chip (selected models, see information on left)</li> <li>Administrator password</li> <li>User password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>USB port disablement (all)</li> </ul>							
Optical	DVD±RW or DVD ROM, slim		<p><b>Software Management Tools</b></p> <ul style="list-style-type: none"> <li>ThinkServer EasyStartup</li> <li>ThinkServer EasyManage</li> </ul>							
Diskette	None (use USB port)		<p><b>Energy Management Technology</b></p> <ul style="list-style-type: none"> <li>Intel Power Node Manager</li> <li>Lenovo® SmartGrid Manager</li> </ul>							
Chipset	<b>Intel C602J Chipset</b>		<p><b>ENERGY STAR® Server 1.1-compliant</b> RoHS-compliant</p>							
Ethernet	Two Gigabit Ethernet ports by Intel i350, one Gigabit Ethernet port by Intel 82574L, dedicate/share management (See Right)									
Riser card	Riser card 1 for slot 1-2, riser card 2 for slot 3-5									
Front ports	Two USB 2.0, one analog VGA DB-15 connector									
Rear ports	Four USB 2.0, one serial (9-pin), two ethernet (RJ-45), one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector									
Intelligent Diagnostics Module (IDM)	Supports IDM or IDM Premium on selected models <i>Basic:</i> IDM LED lights indicate failing component category <i>Premium:</i> IDM Premium LED lights indicate individual failing part									
Systems mgmt	Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); <i>iKVM:</i> add-on ThinkServer Management Module Premium for iKVM functions									
Security chip	No onboard TPM chip; <i>TPM:</i> additional add-on card for TPM function, TCG 1.2-compliant									
Prerequisites	SATA/SAS disk, OS									
Keyboard/mouse	None (use USB port)									
Power supply	One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies									
Rack kit	Includes rack kit									
Cable management	Optional cable management arm on selected models									
Cooling	Up to six fans (5+1 redundant), hot-swap									

See footnotes for important warranty information  
EMEA model(s) announced June 5, 2012

# ThinkServer RD630 with 3.5" Disk Bay (2579) - TopSeller (January 2013)

Product Specifications Reference (PSREF)

Type-model	Processor(s)	Memory (MHz/type)	Memory Pre-conf DIMMs	RAID	Disk controller	Disk(s)	Disk bays	Disk type	SATA optical	Intelligent Diagnostics	TPM	System mgmt	Cable mgmt	Preload OS	PSU qty
2579-A9G	1xE5-2609	1600MHz RDIMM	1x4GB	No	500	No	8xHS	SATA/SAS	DVD±RW	Premium	TPM	IPMI	No	No	1

Limited warranty	<b>3-year parts and labor</b>		<b>2U Rack top</b>												
Processor	Up to two processors, one or two processors standard, <b>Intel® Xeon® E5-2609 processor (4C/4T, 2.4GHz, 10MB, 6.4 GT/s QPI x2)</b> , 4-channel DDR3 memory controller (up to 1066MHz)														
Implementation	Two LGA2011 sockets		<b>Front</b>												
Memory	RDIMM or LV RDIMM, DDR3, ECC, 4-channel per processor, 240-pin; <b>RDIMM:</b> twenty sockets (12 sockets for CPU1, 8 sockets for CPU2), 320GB max (20x16GB) <b>LV RDIMM:</b> sixteen sockets (8 of 12 sockets available for CPU1, 8 sockets for CPU2), 256GB max (16x16GB)														
Additional memory disclaimers	<ul style="list-style-type: none"> <li>Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs</li> <li>Over twelve RDIMMs requires dual processors</li> <li>Over eight LV RDIMMs requires dual processors</li> <li>Mixing of RDIMM and LV RDIMM is not supported</li> </ul>		<b>Rear</b>												
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz														
Disk bays	Eight 3.5" hot-swap SATA/SAS disk bays		Slot 4, 5 are available on dual processors models only												
Disk controller	<b>RAID 500:</b> ThinkServer RAID 500 adapter (LSI SAS 9240-8i), PCI Express® bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support <b>Upgrade for 500:</b> Additional upgrade key for RAID 500 adapter, add RAID 5, 50 support <b>RAID 700:</b> ThinkServer RAID 700 adapter (LSI SAS 9260-8i), PCI Express bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5, 6, 10, 50, 60 support <b>Battery for 700:</b> Intelligent Battery Backup Unit (iBBU08) for RAID 700														
RAID Support	Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter														
Disk(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" SAS: SAS 6.0Gb/s, 15000 rpm														
Tape drive	None														
Optical	DVD±RW or DVD ROM, slim														
Diskette	None (use USB port)														
Chipset	<b>Intel C602J Chipset</b>														
Ethernet	Two Gigabit Ethernet ports by Intel i350, one Gigabit Ethernet port by Intel 82574L, dedicate/share management (See Right) Riser card 1 for slot 1-2, riser card 2 for slot 3-5		<b>Mechanical</b>												
Riser card	Two USB 2.0, one analog VGA DB-15 connector		<ul style="list-style-type: none"> <li>2U rack</li> <li>19"W x 28.9"D x 3.45"H (with rack handles)</li> <li>482.4mm W x 734mm D x 87.6mm H (with rack handles)</li> <li>26.5 kg (58.42 lb) when fully configured</li> </ul>												
Front ports	Four USB 2.0, one serial (9-pin), two ethernet (RJ-45), one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector		<b>Disk Bays</b>												
Rear ports	Supports IDM or IDM Premium on selected models		Bay 1 5.25", 0.5" high, external, for optical Bay 2-9 3.5", 1" high, external, for disk												
Intelligent Diagnostics Module (IDM)	<b>Basic:</b> IDM LED lights indicate failing component category <b>Premium:</b> IDM Premium LED lights indicate individual failing part		<b>Expansion Slots</b>												
Systems mgmt	Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); <b>iKVM:</b> add-on ThinkServer Management Module Premium for iKVM functions		Slot 1: half-length, full-height, PCI Express 3.0 x16 Slot 2: half-length, full-height, PCI Express 3.0 x8 Slot 3: Low Profile, PCI Express 3.0 x8 Slot 4-5 are available on dual processors models: Slot 4: half-length, full-height, PCI Express 3.0 x16 (x8 elec) Slot 5: half-length, full-height, PCI Express 3.0 x8												
Security chip	No onboard TPM chip; <b>TPM:</b> additional add-on card for TPM function, TCG 1.2-compliant		<b>Security</b>												
Prerequisites	SATA/SAS disk, OS		<ul style="list-style-type: none"> <li>Security chip (selected models, see information on left)</li> <li>Administrator password</li> <li>User password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>USB port disablement (all)</li> </ul>												
Keyboard/mouse	None (use USB port)		<b>Software Management Tools</b>												
Power supply	One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies		<ul style="list-style-type: none"> <li>ThinkServer EasyStartup</li> <li>ThinkServer EasyManage</li> </ul>												
Rack kit	Includes rack kit		<b>Energy Management Technology</b>												
Cable management	Optional cable management arm on selected models		<ul style="list-style-type: none"> <li>Intel Power Node Manager</li> <li>Lenovo® SmartGrid Manager</li> </ul>												
Cooling	Up to six fans (5+1 redundant), hot-swap		<b>ENERGY STAR® Server 1.1-compliant</b> RoHS-compliant												

See footnotes for important warranty information  
EMEA model(s) announced January 1, 2013

# ThinkServer RD630 with 2.5" Disk Bay (2594) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor(s)	Memory (MHz/type)	Memory DIMMs	Pre-conf RAID	Disk controller	Disk(s)	Disk bays	Disk type	SATA optical	Intelligent Diagnostics	System Cable mgmt	Preload OS	PSU qty
2594-A5G	1xE5-2640	1333MHz RDIMM	1x4GB	No	700	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM iKVM	No	2
2594-A6G	1xE5-2640	1333MHz RDIMM	1x8GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM iKVM	No	2
2594-A7G	1xE5-2670	1333MHz RDIMM	1x16GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM iKVM	No	2

Limited warranty	<b>3-year</b> parts and labor		
Processor	Up to two processors, one or two processors standard, <b>Intel® Xeon® E5-2640 processor (6C/12T, 2.5GHz, 15MB, 7.2 GT/s QPI x2)</b> , Turbo Boost 2.0 (up to 3.0GHz), 4-channel DDR3 memory controller (up to 1333MHz) <b>Intel Xeon E5-2670 processor (8C/16T, 2.6GHz, 20MB, 8.0 GT/s QPI x2)</b> , Turbo Boost 2.0 (up to 3.3GHz), 4-channel DDR3 memory controller (up to 1600MHz) Two LGA2011 sockets		
Implementation	Two LGA2011 sockets		
Memory	RDIMM or LV RDIMM, DDR3, ECC, 4-channel per processor, 240-pin; <i>RDIMM:</i> twenty sockets (12 sockets for CPU1, 8 sockets for CPU2), 320GB max (20x16GB) <i>LV RDIMM:</i> sixteen sockets (8 of 12 sockets available for CPU1, 8 sockets for CPU2), 256GB max (16x16GB)		
Additional memory disclaimers	<ul style="list-style-type: none"> <li>Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs</li> <li>Over twelve RDIMMs requires dual processors</li> <li>Over eight LV RDIMMs requires dual processors</li> <li>Mixing of RDIMM and LV RDIMM is not supported</li> </ul>		
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz		
Disk bays	Eight or sixteen 2.5" hot-swap SATA/SAS disk bays (Sixteen 2.5" disk bays availability on August 2012)		
Disk controller	<i>RAID 500:</i> ThinkServer RAID 500 adapter (LSI SAS 9240-8i), PCI Express® bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support <i>Upgrade for 500:</i> Additional upgrade key for RAID 500 adapter, add RAID 5, 50 support <i>RAID 700:</i> ThinkServer RAID 700 adapter (LSI SAS 9260-8i), PCI Express bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5, 6, 10, 50, 60 support <i>Battery for 700:</i> Intelligent Battery Backup Unit (IBBU08) for RAID 700		
RAID Support	Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter		
Disk(s)	2.5" SAS: SAS 6.0Gb/s, 10000 rpm SSD: Solid State Drive, 2.5"		
Tape drive	None	<p>Bay 10-17 are available on sixteen disk bays models only</p>	
Optical	DVD±RW or DVD ROM, slim		
Diskette	None (use USB port)		
Chipset	<b>Intel C602J Chipset</b>		
Ethernet	Two Gigabit Ethernet ports by Intel i350, one Gigabit Ethernet port by Intel 82574L, dedicate/share management (See Right) Riser card 1 for slot 1-2, riser card 2 for slot 3-5		
Riser card	Two USB 2.0, one analog VGA DB-15 connector		
Front ports	Four USB 2.0, one serial (9-pin), two ethernet (RJ-45), one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector		
Rear ports	Supports IDM or IDM Premium on selected models <i>Basic:</i> IDM LED lights indicate failing component category <i>Premium:</i> IDM Premium LED lights indicate individual failing part		
Intelligent Diagnostics Module (IDM)	Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); <i>iKVM:</i> add-on ThinkServer Management Module Premium for iKVM functions		
Systems mgmt	No onboard TPM chip; <i>TPM:</i> additional add-on card for TPM function, TCG 1.2-compliant		
Security chip		<p>Slot 4, 5 are available on dual processors models only</p>	
Prerequisites	SATA/SAS disk, OS		
Keyboard/mouse	None (use USB port)		
Power supply	One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies		
Rack kit	Includes rack kit		
Cable management	Optional cable management arm on selected models		
Cooling	Up to six fans (5+1 redundant), how-swap		
			<p><b>Mechanical</b></p> <ul style="list-style-type: none"> <li>2U rack</li> <li>19"W x 28.9"D x 3.45"H (with rack handles)</li> <li>482.4mm W x 734mm D x 87.6mm H (with rack handles)</li> <li>26.5 kg (58.42 lb) when fully configured</li> </ul>
			<p><b>Disk Bays</b></p> <p>Bay 1 5.25", 0.5" high, external, for optical Bay 2-9 2.5", 0.6" high, external, for disk Bay 10-17 are available on sixteen 2.5" disk bays models: Bay 10-17 2.5", 0.6" high, external, for disk</p>
			<p><b>Expansion Slots</b></p> <p>Slot 1: half-length, full-height, PCI Express 3.0 x16 Slot 2: half-length, full-height, PCI Express 3.0 x8 Slot 3: Low Profile, PCI Express 3.0 x8 Slot 4-5 are available on dual processors models: Slot 4: half-length, full-height, PCI Express 3.0 x16 (x8 elec) Slot 5: half-length, full-height, PCI Express 3.0 x8</p>
		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>Security chip (selected models, see information on left)</li> <li>Administrator password</li> <li>User password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>USB port disablement (all)</li> </ul>	
		<p><b>Software Management Tools</b></p> <ul style="list-style-type: none"> <li>ThinkServer EasyStartup</li> <li>ThinkServer EasyManage</li> </ul>	
		<p><b>Energy Management Technology</b></p> <ul style="list-style-type: none"> <li>Intel Power Node Manager</li> <li>Lenovo® SmartGrid Manager</li> </ul>	
		<p><b>ENERGY STAR® Server 1.1-compliant</b> RoHS-compliant</p>	