ThinkServer RD630 Photography - Eight 3.5" disk bays*



* 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 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 bays

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







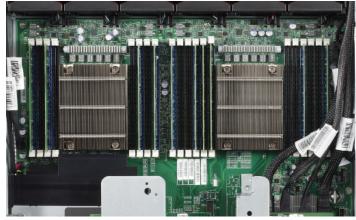




- Up to two Intel® Xeon® E5-2600 series processors, up to 8 cores/16 threads per processor
- Up to 320GB ECC RDIMM memory (20x16GB) or 256GB ECC LV RDIMM memory (16x16GB)
- Up to sixteen 2.5" hot-swap disk bays
- Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter
- Up to two power supplies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

ThinkServer RD630 Photography - Details - 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 RD630 Photography - Details - II





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

Type-		Memory	Memory	Pre-conf	Disk		Disk	Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	type	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2579-A2U	1xE5-2640	1333MHz RDIMM	1x4GB	No	700	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	IPMI	No	No	1
2579-A3U	1xE5-2640	1333MHz RDIMM	1x4GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	1
2579-A4U	1xE5-2650	1333MHz RDIMM	1x8GB	No	700	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	IPMI	No	No	1
2579-A5U	1xE5-2650	1333MHz RDIMM	2x8GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2579-A6U	1xE5-2620	1333MHz RDIMM	1x4GB	No	700	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	IPMI	No	No	1
2579-A7U	1xE5-2670	1333MHz RDIMM	1x16GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2579-A8U	1xE5-2670	1333MHz RDIMM	1x8GB	No	700+Battery	None	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
					•										

2579-A8U 1xE5-2670		A/SAS DVD±RW Premium TPM iKVM No No 2
Limited warranty	3-year parts and labor; more Lenovo Services see S-RDS sheet	2U Rack top
Processor	Up to two processors, one or two processors standard, Intel® Xeon® E5-2620 processor (6C/12T, 2.0GHz, 15MB, 7.2 GT/s QPI x2), Turbo Boost 2.0 (up to 2.5GHz), 4-channel DDR3 memory controller (up to 1333MHz) Intel Xeon E5-2640 processor (6C/12T, 2.5GHz, 15MB, 7.2 GT/s QPI x2), Turbo Boost 2.0 (up to 3.0GHz), 4-channel DDR3 memory controller (up to 1333MHz) Intel Xeon E5-2650 processor (8C/16T, 2.0GHz, 20MB, 8.0 GT/s QPI x2), Turbo Boost 2.0 (up to 2.8GHz), 4-channel DDR3 memory controller (up to 1600MHz) Intel Xeon E5-2670 processor (8C/16T, 2.6GHz, 20MB, 8.0 GT/s QPI x2), Turbo Boost 2.0 (up to 3.3GHz), 4-channel DDR3 memory controller (up to 1600MHz) 4-channel DDR3 memory controller (up to 1600MHz)	Power supply Po
Implementation	Two LGA2011 sockets	fan fan fan fan fan fan fan fan
Memory Additional memory disclaimers	RDIMM or LV RDIMM, DDR3, ECC, 4-channel per processor, 240-pin; RDIMM: twenty sockets (12 sockets for CPU1, 8 sockets for CPU2), 320GB max (20x16GB) LV RDIMM: sixteen sockets (8 of 12 sockets available for CPU1, 8 sockets for CPU2), 256GB max (16x16GB) • Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs • Over twelve RDIMMs requires dual processors • Over eight LV RDIMMs requires dual processors	Front Optical Optical Disk Bay 2-9
	Mixing of RDIMM and LV RDIMM is not supported	Rear
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	4 - PCle x16 5 - PCle x8 3 - PCle x8 2 - PCle x8 PSU PSU
Disk bays Disk controller	Eight 3.5" hot-swap SATA/SAS disk bays RAID 500: ThinkServer RAID 500 adapter (LSI= SAS 9240-8i), PCI Express= bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support Upgrade for 500: Additional upgrade key for RAID 500 adapter, add RAID 5, 50 support ThinkServer RAID 700 adapter (LSI SAS 9260-8i), PCI Express bus, SATA 6.0Gb/s, SAS 6.0Gb/s,	Slot 4, 5 are available on dual processors models only
	RAID 0, 1, 5, 6, 10, 50, 60 support	Mechanical
RAID Support	Battery for 700: Intelligent Battery Backup Unit (iBBU08) for RAID 700 Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter	• Zo lack
Disk(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" SAS: SAS 6.0Gb/s, 15000 rpm	 19"W x 28.9"D x 3.45"H (with rack handles) 482.4mm W x 734mm D x 87.6mm H (with rack handles) 26.5 kg (58.42 lb) when fully configured
Tape drive Optical Diskette	None DVD±RW or DVD ROM, slim None (use USB port)	Disk Bays Bay 1 5.25", 0.5" high, external, for optical Bay 2-9 3.5", 1" high, external, for disk
Chipset	Intel C602J Chipset	Expansion Slots
Ethernet Riser card Front ports Rear ports Intelligent Diagnostics Module (IDM) Systems mgmt	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 Two USB 2.0, one analog VGA DB-15 connector Four USB 2.0, one serial (9-pin), two ethernet (RJ-45), one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector Supports IDM or IDM Premium on selected models Basic: IDM LED lights indicate failing component category Premium: IDM Premium LED lights indicate individual failing part Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); iKVM: 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 • Security chip (selected models, see information on left) • Administrator password • User password • User password • Boot sequence control • Boot without keyboard, mouse, diskette
Security chip	No onboard TPM chip; TPM: additional add-on card for TPM function, TCG 1.2-compliant	Serial port I/O control USB port disablement (all)
Prerequisites Keyboard/mouse Power supply	SATA/SAS disk, OS None (use USB port) One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies	Software Management Tools ThinkServer EasyStartup ThinkServer EasyManage
Rack kit Cable management Cooling	Includes rack kit Optional cable management arm on selected models Up to six fans (5+1 redundant), hot-swap	 Energy Management Technology Intel Power Node Manager Lenovo® SmartGrid Manager
Coming	op to on tallo (of Frodundality, flot owap	ENERGY STAR Server 1.1-compliant RoHS-compliant
	ant warranty information	For more accessories, see O-RDS sheet

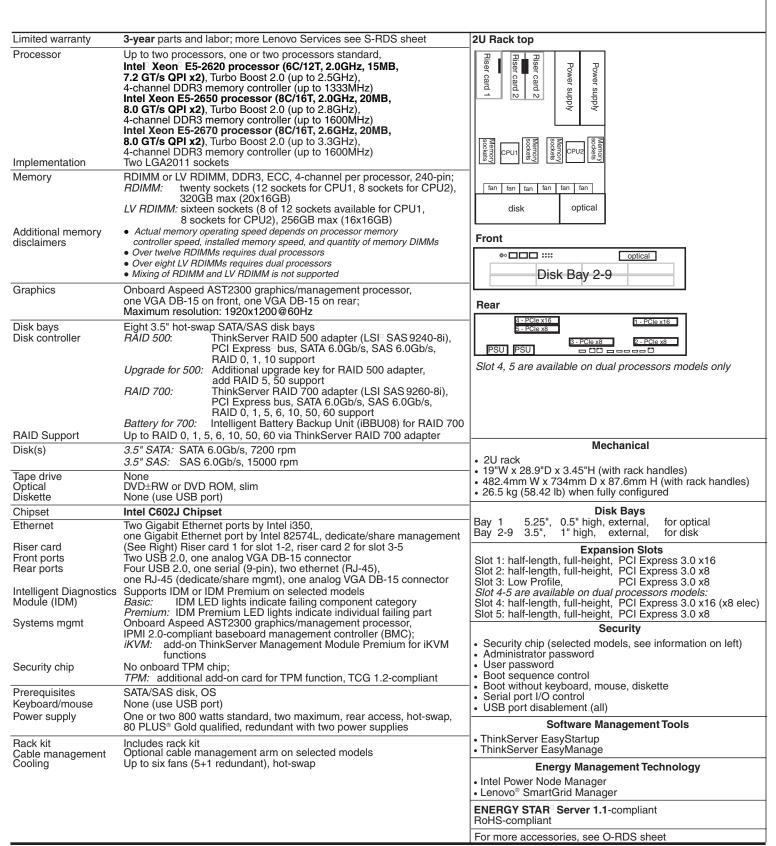
ThinkServer RD630 with 3.5" Disk Bay (2577) - TopSeller

Type-		Memory	Memory	Pre-conf	Disk		Disk	Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	type	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2577-A1U	2xE5-2620	1333MHz RDIMM	2x8GB	5	700+Battery	6x500GB 3.5" \$	SATA 8xHS	SATA/SAS	DVD	Premium	TPM	iKVM	No	No	2

Limited warranty	1-year parts and labor; more Lenovo Services see S-RDS sheet	2U Rack top
Processor Implementation	Up to two processors, one or two processors standard, Intel® Xeon® E5-2620 processor (6C/12T, 2.0GHz, 15MB, 7.2 GT/s QPI x2), Turbo Boost 2.0 (up to 2.5GHz), 4-channel DDR3 memory controller (up to 1333MHz) Two LGA2011 sockets	Power supply Power supply Power card 2 Riser card 2
		pply
Memory	RDIMM or LV RDIMM, DDR3, ECC, 4-channel per processor, 240-pin; RDIMM: twenty sockets (12 sockets for CPU1, 8 sockets for CPU2), 320GB max (20x16GB) LV RDIMM: sixteen sockets (8 of 12 sockets available for CPU1, 8 sockets for CPU2), 256GB max (16x16GB)	y Memory sockets Memory sockets Memory sockets Remory sockets
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over twelve RDIMMs requires dual processors Over eight LV RDIMMs requires dual processors Mixing of RDIMM and LV RDIMM is not supported 	fan fan fan fan fan optical
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	Front optical
Disk bays Disk controller	Eight 3.5" hot-swap SATA/SAS disk bays RAID 500: ThinkServer RAID 500 adapter (LSI SAS 9240-8i), PCI Express bus, SATA 6.0Gb/s, SAS 6.0Gb/s,	Disk Bay 2-9
	RAID 0, 1, 10 support Upgrade for 500: Additional upgrade key for RAID 500 adapter,	Rear
	add RAID 5, 50 support RAID 700: 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	4 - PCle x16 5 - PCle x8 3 - PCle x8 2 - PCle x8 PSU PSU = 111 - 1111 - 1111
RAID Support	Battery for 700: Intelligent Battery Backup Unit (IBBU08) for RAID 700 Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter	Slot 4, 5 are available on dual processors models only
Disk(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" SAS: SAS 6.0Gb/s, 15000 rpm	
Tape drive Optical Diskette	None DVD±RW or DVD ROM, slim None (use USB port)	
Chipset	Intel C602J Chipset	Mechanical
Ethernet	Two Gigabit Ethernet ports by Intel i350,	2U rack
Riser card Front ports	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 Two USB 2.0, one analog VGA DB-15 connector	19"W x 28.9"D x 3.45"H (with rack handles) 482.4mm W x 734mm D x 87.6mm H (with rack handles) 26.5 kg (58.42 lb) when fully configured
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	Disk Bays
Intelligent Diagnostics Module (IDM)	, , , , , , , , , , , , , , , , , , , ,	Bay 1 5.25", 0.5" high, external, for optical Bay 2-9 3.5", 1" high, external, for disk
Systems mgmt	Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); iKVM: add-on ThinkServer Management Module Premium for iKVM functions	Expansion Slots 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:
Security chip	No onboard TPM chip; TPM: additional add-on card for TPM function, TCG 1.2-compliant	Slot 4: half-length, full-height, PCI Express 3.0 x16 (x8 elec) Slot 5: half-length, full-height, PCI Express 3.0 x8
Prerequisites	SATA/SAS disk, OS	Security
Keyboard/mouse Power supply	None (use USB port) One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies	Security chip (selected models, see information on left) Administrator password User password
Rack kit Cable management Cooling	Includes rack kit Optional cable management arm on selected models Up to six fans (5+1 redundant), hot-swap	Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control USB port disablement (all)
		Software Management Tools ThinkServer EasyStartup ThinkServer EasyManage
		Energy Management Technology
		Intel Power Node Manager Lenovo® SmartGrid Manager
		ENERGY STAR Server 1.1-compliant RoHS-compliant
		For more accessories, see O-RDS sheet

ThinkServer RD630 with 3.5" Disk Bay (2592)

Type-		Memory	Memory	Pre-conf	Disk		Disk	Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	type	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2592-A1U	1xE5-2650	1333MHz RDIMM	11x8GB	No	700+Battery		8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2592-A2U	1xE5-2620	1333MHz RDIMM	11x4GB	No	700		8xHS	SATA/SAS	DVD±RW	Premium	TPM	IPMI	No	No	1
2592-A3U	1xE5-2670	1333MHz RDIMM	11x16GB	No	700+Battery		8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2592-A4U	1xE5-2650	1333MHz RDIMM	16x8GB	No	700+Battery 4x3	300GB 3.5" SAS	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2592-A5U	1xE5-2620	1333MHz RDIMM	13x8GB	No	700+Battery 3x5	00GB 3.5" SATA	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2592-A6U	2xE5-2670	1333MHz RDIMM	16x16GB	No	700+Battery 4x3	800GB 3.5" SAS	8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2



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

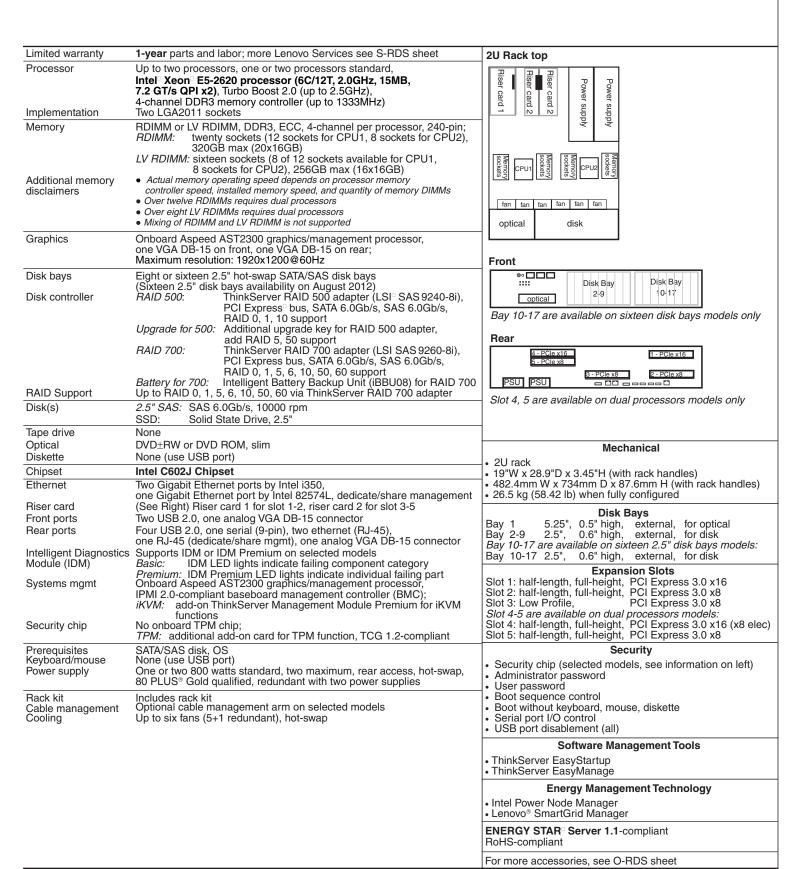
Type- model Processor(s)	Memory (MHz/type)	Memory DIMMs	Pre-conf RAID	Disk controller	Diek(e)	Disk	Disk		Intelligent		System			
model Processor(s) 2594-A1U 1xE5-2620	<u> </u>		No	500	Disk(s) None	bays 8xHS	type SATA/S	optical AS DVD±RV		TPM	IPMI	No	OS No	qty 1
2594-A2U 1xE5-2640			No	700+Battery	None			AS DVD±RV		TPM	iKVM	No	No	2
2594-A3U 1xE5-2660 2594-A4U 1xE5-2620			No No	700+Battery 500	None None			AS DVD±RV AS DVD±RV		TPM	iKVM iKVM	No No	No No	2
2594-A5U 1xE5-2640	1333MHz RDIMM	1x4GB	No	700	None	8xHS	SATA/S	AS DVD±RV	/ Premium	TPM	iKVM	No	No	2
2594-A6U 1xE5-2640 2594-A7U 1xE5-2670			No No	700+Battery 700+Battery	None None	8xHS 8xHS		AS DVD±RV AS DVD±RV		TPM TPM	iKVM iKVM	No No	No No	2
2594-A9U 1xE5-2620	1333MHz RDIMM	l 1x4GB	No	700	None	8xHS	SATA/S	AS DVD±RV	/ Premium	TPM	IPMI	No	No	2
2594-ADU 1xE5-2670 2594-AEU 1xE5-2690	1333MHz RDIMM 1333MHz RDIMM	1x8GB 11x16GB	No No	700 700+Battery	None None	8xHS 8xHS	SATA/S SATA/S	AS DVD±RV AS DVD±RV	/ Premium / Premium	TPM TPM	IPMI iKVM	No No	No No	1 2
Limited warranty	3-year parts and	l labor; m	ore Len	ovo Services	see S-RDS sh	eet	2U	Rack top						
Processor	Up to two proces													
	Intel® Xeon® E5- 7.2 GT/s QPI x2 4-channel DDR3 Intel Xeon E5-2 7.2 GT/s QPI x2 4-channel DDR3 Intel Xeon E5-2 8.0 GT/s QPI x2), Turbo E 3 memory 640 proc), Turbo E 3 memory 660 proc), Turbo E	Boost 2.0 controll essor (6 Boost 2.0 controll essor (8 Boost 2.0	O (up to 2.5GH er (up to 1333 6C/12T, 2.5GH O (up to 3.0GH er (up to 1333 6C/16T, 2.2GH O (up to 3.0GH	Hz), ´ BMHz) Hz, 15MB, Hz), BMHz) Hz, 20MB, Hz),			Riser card 2 Riser card 2 Riser card 1 Riser card 1 Riser card 1	Power supply Power supply Power supply Mae					
	4-channel DDR3 Intel Xeon E5-2 8.0 GT/s QPI x2 4-channel DDR3 Intel Xeon E5-2	670 proc) , Turbo E 3 memory	essor (8 Boost 2.0 controll	3C/16T, 2.6GH D (up to 3.3GH er (up to 1600	Hz, 20MB, Hz), DMHz)		Sep.	CPU1 sockets fan fan fan fan	Memory CPU2 GCRets CPU2 fan fan fan					
Implementation	8.0 GT/s QPI x2 4-channel DDR3 Two LGA2011 so), Turbo E memory ockets	Boost 2.0 controll	0 (up to 3.8GH er (up to 1600	Hz), DMHz)		╝	optical	disk					
Memory	3200 LV RDIMM: sixte	nty socket GB max (een socke	ts (12 so 20x16G ets (8 of	ckets for CPUB)	J1, 8 sockets for CPI	or CPU2)		ont ont optical	Disk Bay 2-9		Disk Bay 10-17			
Additional memory disclaimers	Actual memory controller speed. Over twelve RDI	, installed i MMs requi	memory s res dual p	speed, and quar processors		DIMMs		ay 10-17 are ear	available on	sixtee	n disk b	ays mo	odels o	nly
	Over eight LV RLMixing of RDIMN							4 - PCle	x16		1 - PCle x1			
Graphics	Onboard Aspect one VGA DB-15 Maximum resolu	on front,	one VG	A DB-15 on re				5 - PCIe	3 - PCle x8	_	2 - PCle x8			
Disk bays	Eight or sixteen						SI	ot 4, 5 are a	vailable on du	al pro	cessors	mode	ls only	
Disk controller	(Sixteen 2.5" dis RAID 500:	ThinkS PCI Ex	Server Rí ≀press□ b	AID 500 adap bus, SATA 6.0	012) ter (LSIº SAS: Gb/s, SAS 6.0	9240-8i), Gb/s,			Mad	honia	al.			
	Upgrade for 500	: Additio), 1, 10 s nal upgi	radė key for R	AID 500 adap	ter,	. 2	U rack	Med	chanic	aı			
	RAID 700:	ThinkS PCI Ex	Server R. opress b	us, SATA 6.00	ter (LSI SAS 9 Sb/s, SAS 6.00		• 19 • 48	9"W x 28.9"l 82.4mm W >	D x 3.45"H (w x 734mm D x 8 2 lb) when full	37.6m	m H (wi		handle	es)
RAID Support	Battery for 700: Up to RAID 0, 1,	Intellige	ent Batte		nit (iBBU08) fo			y 1 5.2	Disk 25", 0.5" high	Bays , ext		for opti	ical	
Disk(s)	2.5" SAS: SAS SSD: Solid	6.0Gb/s, State Dr		pm		-	Ba	y 10-17 are	5", 0.6" high available on s	ixteen		sk bays	mode	ls:
Tape drive	None						Day	y 10-17 2.5	5", 0.6" high Expa r	•		ioi uisi	`	
Optical Diskette	DVD±RW or DVI None (use USB	,	siim						gth, full-height	, PCI	Expres			
Chipset	Intel C602J Chi	. ,						t 2: half-lenç t 3: Low Pro	gth, full-height		Expres Expres			
Ethernet	Two Gigabit Ethe	ernet port					Slo	t 4-5 are av	ailable on dua	I proce	essors i	nodels	:	ole =\
Riser card	one Gigabit Ethe (See Right) Rise					ınageme			gth, full-height gth, full-height					eiec)
Front ports	Two USB 2.0, or	ne analog	VGA DI	3-15 connecto	or					curity				
Rear ports Intelligent Diagnostics	Four USB 2.0, of one RJ-45 (dedicated Supports IDM or	cate/shar	e mgmt)	, one analog	VGA DB-15 co	nnector	• A	dministrator		dels, s	ee info	mation	on left	t)
Module (IDM)	Basic: IDM L	_ED lights	s indicat	e failing comp	onent categor		• B	lser passwo loot sequend	ce control					
Systems mgmt	Premium: IDM F Onboard Aspect IPMI 2.0-complia iKVM: add-on	d AST230 ant baseb	00 graph oard ma	ics/managem anagement co	ent processor, introller (BMC)	;	• S	Serial port I/C	keyboard, mo) control ablement (all)	use, d	iskette			
Security chip	function No onboard TPN	s /I chip;						ninkServer E		nager	nent To	ols		
Prerequisites	TPM: additiona SATA/SAS disk,		caru for	i rivi lunction,	, 100 1.2-com	μιαπί	- Th	ninkServer E	asyManage					
Keyboard/mouse Power supply	None (use USB One or two 800 9 80 PLUS® Gold	port) watts staı				ot-swap,		tel Power N	n ergy Manag ode Manager rtGrid Manag		t Techn	ology		
Rack kit Cable management Cooling	Includes rack kit Optional cable m Up to six fans (5	nanagem			nodels			ERGY STAI HS-compliar	R Server 1.1	-comp	liant			
<u> </u>	. (-		,,	•			For	more acces	sories, see O	-RDS	sheet			

Type-		Memory	Memory	Pre-conf	Disk		Disk	Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	type	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2594-A8U	1xE5-2620	1333MHz RDIMM	1x8GB	No	700+Battery	No	16xHS	SATA/SAS	DVD±RW	Premium	TPM	IPMI	No	No	1
2594-AAU	1xE5-2640	1333MHz RDIMM	1x8GB	No	700+Battery	No	16xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	1
2594-ABU	2xE5-2650	1333MHz RDIMM	2x8GB	No	700+Battery	No	16xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2594-ACU	1xE5-2650	1333MHz RDIMM	1x8GB	No	700+Battery	No	16xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2

Limited warranty	3-year parts and labor; more Lenovo Services see S-RDS sheet	2U Rack top
Processor	Up to two processors, one or two processors standard, Intel⁻ Xeon⁻ E5-2620 processor (6C/12T, 2.0GHz, 15MB, 7.2 GT/s QPI x2), Turbo Boost 2.0 (up to 2.5GHz), 4-channel DDR3 memory controller (up to 1333MHz) Intel Xeon E5-2640 processor (6C/12T, 2.5GHz, 15MB, 7.2 GT/s QPI x2), Turbo Boost 2.0 (up to 3.0GHz), 4-channel DDR3 memory controller (up to 1333MHz) Intel Xeon E5-2650 processor (8C/16T, 2.0GHz, 20MB, 8.0 GT/s QPI x2), Turbo Boost 2.0 (up to 2.8GHz), 4-channel DDR3 memory controller (up to 1600MHz) Two LGA2011 sockets	Power supply Po
Memory	RDIMM or LV RDIMM, DDR3, ECC, 4-channel per processor, 240-pin;]
Additional memory disclaimers	RDIMM: twenty sockets (12 sockets for CPÚ1, 8 sockets for CPÚ2), 320GB max (20x16GB) LV RDIMM: sixteen sockets (8 of 12 sockets available for CPU1, 8 sockets for CPU2), 256GB max (16x16GB) • Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs • Over twelve RDIMMs requires dual processors • Over eight LV RDIMMs requires dual processors • Mixing of RDIMM and LV RDIMM is not supported	fan fan fan fan fan fan fan optical disk Front Oisk Bay Disk Bay 10-17
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	Bay 10-17 are available on sixteen disk bays models only
Disk bays Disk controller	Eight or sixteen 2.5" hot-swap SATA/SAS disk bays RAID 500: ThinkServer RAID 500 adapter (LSI SAS 9240-8i), PCI Express bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support Upgrade for 500: Additional upgrade key for RAID 500 adapter, add RAID 5, 50 support 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 Battery for 700: Intelligent Battery Backup Unit (iBBU08) for RAID 700	Rear 4-PClex16 5-PClex8 PSU
RAID Support	Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter	Mechanical
Disk(s)	2.5" SAS: SAS 6.0Gb/s, 10000 rpm SSD: Solid State Drive, 2.5"	2U rack 19"W x 28.9"D x 3.45"H (with rack handles) 400 x 28.9"D x 3.45"H (with rack handles)
Tape drive Optical	None	482.4mm W x 734mm D x 87.6mm H (with rack handles) 26.5 kg (58.42 lb) when fully configured
Diskette	DVD±RW or DVD ROM, slim None (use USB port)	Disk Bays
Chipset	Intel C602J Chipset	Bay 1 5.25", 0.5" high, external, for optical
Ethernet Riser card	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	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 Expansion Slots
Front ports Rear ports	Two USB 2.0, one analog VGA DB-15 connector Four USB 2.0, one serial (9-pin), two ethernet (RJ-45), one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector	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
Module (IDM)	Supports IDM or IDM Premium on selected models Basic: IDM LED lights indicate failing component category Premium: IDM Premium LED lights indicate individual failing part	Slot 4-5 are available on dual processors models: Slot 4: half-length, full-height, PCI Express 3.0 x16 (x8 elec)
Systems mgmt	Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); iKVM: add-on ThinkServer Management Module Premium for iKVM	Slot 5: half-length, full-height, PCI Express 3.0 x8 Security Security chip (selected models, see information on left)
Security chip	functions No onboard TPM chip; TPM: additional add-on card for TPM function, TCG 1.2-compliant	Administrator password User password Boot sequence control
Prerequisites Keyboard/mouse Power supply	SATA/SAS disk, OS None (use USB port) One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies	Boot without keyboard, mouse, diskette Serial port I/O control USB port disablement (all)
Dook kit		Software Management Tools
Rack kit Cable management Cooling	Includes rack kit Optional cable management arm on selected models Up to six fans (5+1 redundant), hot-swap	ThinkServer EasyStartup ThinkServer EasyManage
-		Energy Management Technology • Intel Power Node Manager • Lenovo® SmartGrid Manager
		ENERGY STAR Server 1.1-compliant RoHS-compliant
		For more accessories, see O-RDS sheet

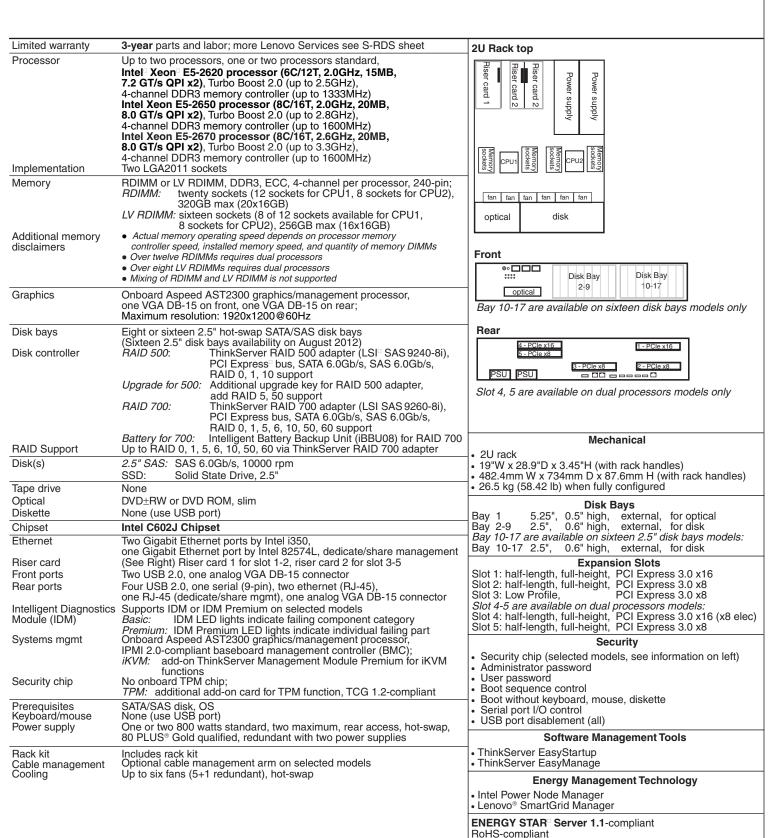
ThinkServer RD630 with 2.5" Disk Bay (2593) - TopSeller

Type-		Memory	Memory	Pre-conf	Disk		Disk	Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	type	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2593-A1U	2xE5-2620	1333MHz RDIMN	M 2x8GB		700+Battery	5x600GB 2.5"	SAS 8xHS	SATA/SAS	DVD	Premium	TPM	iKVM	No	No	2
2593-A2U	2xE5-2620	1333MHz RDIMN	И 2x8GB	5	700+Battery	6x600GB 2.5"	SAS 8xHS	SATA/SAS	DVD	Premium	TPM	iKVM	No	No	2



ThinkServer RD630 with 2.5" Disk Bay (2595)

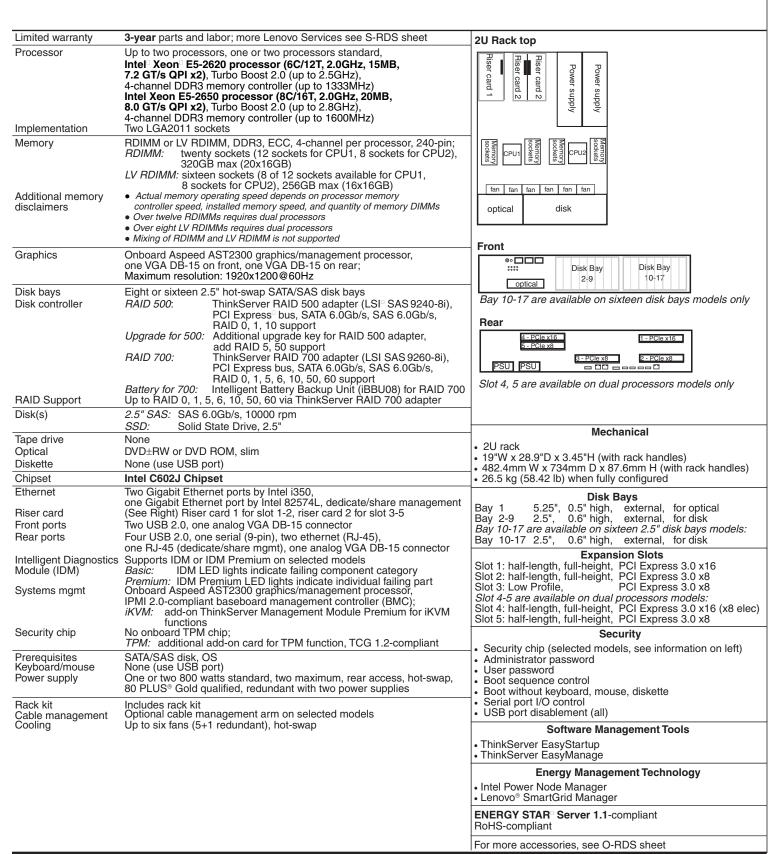
Type-		Memory	Memory	Pre-conf	Disk		Disk	Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	type	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2595-A1U	1xE5-2620	1333MHz RDIMN	l 1x8GB	No	700		8xHS	SATA/SAS	DVD±RW	Basic	TPM	IPMI	No	No	1
2595-A2U	1xE5-2650	1333MHz RDIMN	11x16GB	No	700+Battery		8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2595-A5U	1xE5-2650	1333MHz RDIMN	l 6x8GB	No	700+Battery	4x300GB 2.5"	SAS 8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2595-A6U	1xE5-2620	1333MHz RDIMN	I 3x8GB	No	700+Battery	4x300GB 2.5"	SAS 8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2595-A7U	2xE5-2670	1333MHz RDIMM	I 6x16GB	No	700+Battery	4x300GB 2.5"	SAS 8xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2



For more accessories, see O-RDS sheet

ThinkServer RD630 with 2.5" Disk Bay (2595) - August 2012

Type-		Memory	Memory	Pre-conf	Disk		Disk	Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	type	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2595-A3U	1xE5-2650	1333MHz RDIMM	l 1x8GB	No	700+Battery	No	16xHS	SATA/SAS	DVD±RW	Premium	TPM	iKVM	No	No	2
2595-A4U	1xE5-2620	1333MHz RDIMM	l 1x8GB	No	700+Battery	No	16xHS	SATA/SAS	DVD±RW	Premium	TPM	IPMI	No	No	2



Type-		Memory	Memory	Pre-conf	Disk		Disk	SATA	Intelligent		System	Cable	Preload	PSU
model	Processor(s)	(MHz/type)	DIMMs	RAID	controller	Disk(s)	bays	optical	Diagnostics	TPM	mgmt	mgmt	os	qty
2595-A8U	1xE5-2643	1333MHz RDIMN	M 8x8GB	10	700+Battery	4x300GB 2.5" SAS	8xHS	DVD±RW	Premium	TPM	iKVM	No	Win2008E R2	2
2595-A9U	2xE5-2667	1333MHz RDIMN	M 16x8GB	6	700+Battery	8x300GB 2.5" SAS	8xHS	DVD±RW	Premium	TPM	iKVM	No	Win2008E R2	2
2595-AAU	2xE5-2667	1333MHz RDIMN	И 16x8GB	6	700+Battery	8x300GB 2.5" SAS	8xHS	DVD±RW	Premium	TPM	iKVM	No	RHEL 6.0	2

 These models are ThinkServer solutions for Vectorwise Data Mart Appliance for more information please see www.actian.com/products/vectorwise/vectorwise-datamart-appliance

	for more information please see www.actian.com/products/vectorwise/v	vectorwise-datamart-appliance
Limited warranty	3-year parts and labor; more Lenovo Services see S-RDS sheet	2U Rack top
Processor	Up to two processors, one or two processors standard, Intel® Xeon® E5-2643 processor (4C/8T, 3.3GHz, 10MB, 8.0 GT/s QPI x2), Turbo Boost 2.0 (up to 3.5GHz), 4-channel DDR3 memory controller (up to 1600MHz) Intel Xeon E5-2667 processor (6C/12T, 2.9GHz, 15MB, 8.0 GT/s QPI x2), Turbo Boost 2.0 (up to 3.5GHz), 4-channel DDR3 memory controller (up to 1600MHz)	Power supply Power supply Power card 2 Riser card 2 Riser card 1
Implementation	Two LGA2011 sockets	
Memory Additional memory disclaimers	RDIMM or LV RDIMM, DDR3, ECC, 4-channel per processor, 240-pin; RDIMM: twenty sockets (12 sockets for CPU1, 8 sockets for CPU2), 320GB max (20x16GB) LV RDIMM: sixteen sockets (8 of 12 sockets available for CPU1, 8 sockets for CPU2), 256GB max (16x16GB) • Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs • Over twelve RDIMMs requires dual processors • Over eight LV RDIMMs requires dual processors • Mixing of RDIMM and LV RDIMM is not supported	CPU1 See Memory CPU2 See Memor
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	e∘□□□ Disk Bay Disk Bay optical 2-9 10-17
Disk bays Disk controller	Eight or sixteen 2.5" hot-swap SATA/SAS disk bays RAID 500: ThinkServer RAID 500 adapter (LSI SAS 9240-8i), PCI Express bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support Upgrade for 500: Additional upgrade key for RAID 500 adapter, add RAID 5, 50 support 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	Bay 10-17 are available on sixteen disk bays models only Rear 4-PClex16 5-PClex8 PSU PSU
RAID Support	Battery for 700: Intelligent Battery Backup Unit (iBBU08) for RAID 700 Up to RAID 0, 1, 5, 6, 10, 50, 60 via ThinkServer RAID 700 adapter	Siot 4, 3 are available on dual processors models only
Disk(s)	2.5" SAS: SAS 6.0Gb/s, 10000 rpm SSD: Solid State Drive, 2.5"	
Tape drive	None	- Mechanical
Optical	DVD±RW or DVD ROM, slim	2U rack19"W x 28.9"D x 3.45"H (with rack handles)
Diskette	None (use USB port)	• 482.4mm W x 734mm D x 87.6mm H (with rack handles)
Chipset	Intel C602J Chipset	26.5 kg (58.42 lb) when fully configured
Ethernet Riser card Front ports Rear ports Intelligent Diagnostics Module (IDM) Systems mgmt	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 Two USB 2.0, one analog VGA DB-15 connector Four USB 2.0, one serial (9-pin), two ethernet (RJ-45), one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector Supports IDM or IDM Premium on selected models Basic: IDM LED lights indicate failing component category Premium: IDM Premium LED lights indicate individual failing part Onboard Aspeed AST2300 graphics/management processor,	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 Expansion Slots 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
Security chip	IPMI 2.0-compliant baseboard management controller (BMC); iKVM: add-on ThinkServer Management Module Premium for iKVM functions No onboard TPM chip;	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
Prerequisites Keyboard/mouse Power supply	TPM: additional add-on card for TPM function, TCG 1.2-compliant SATA/SAS disk, OS None (use USB port) One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies	Security chip (selected models, see information on left) Administrator password User password Boot sequence control Boot without keyboard, mouse, diskette
Rack kit Cable management Cooling	Includes rack kit Optional cable management arm on selected models Up to six fans (5+1 redundant), hot-swap	Serial port I/O control USB port disablement (all) Software Management Tools
		ThinkServer EasyStartup ThinkServer EasyManage
	Prelocated Operating Creaters	Energy Management Technology Intel Power Node Manager Lenovo® SmartGrid Manager
Preloaded Operating System A8U: Genuine Windows Server 2008 R2 Enterprise, Vectorwise 100GB limitation per unit A9U: Genuine Windows Server 2008 R2 Enterprise, Vectorwise 1TB limitation per unit		ENERGY STAR Server 1.1-compliant RoHS-compliant
AAU: Red Hat Enterprise Linux 6.0, Vectorwise 1TB limitation per unit		For more accessories, see O-RDS sheet