ThinkServer RD530 Photography - 3.5" Disk Bay*



* Some models in pictures below contain optional add-in ethernet adapter, please see O-RDS for more RD530 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 four 3.5" hot-swap disk bays
- Up to RAID 0, 1, 5, 6, 10 via ThinkServer RAID 700 adapter
- Up to two power supplies with redundant, hot-swap, 80 PLUS® Gold qualified
- Up to eight fans (7+1 redundant), non hot-swap

ThinkServer RD530 Photography - 2.5" Disk Bay*



* Some models in pictures below contain optional add-in ethernet adapter, please see O-RDS for more RD530 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 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 eight fans (7+1 redundant), non hot-swap

ThinkServer RD530 Photography - Detail





Dual processors

Single processor





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

2.5" Hot-swap disk bay



ThinkServer RD530 rear I/O ports

ThinkServer RD530 with 3.5" Disk Bay (2570) - TopSeller

Type- model	Processor(s)	Memory (MHz/type)	Memory DIMMs	Pre-conf RAID	Disk controller	Disk(s)	Disk bavs	Disk type	SATA optical	Intelligent Diagnostics	ТРМ	System	Cable mamt	Preload OS	PSU atv
2570-A2G	1xE5-2620	1333MHz RDIMM	1x8GB	No	700	None	4xHS	SATA/SAS			TPM	IPMI	No	No	1
2570-A6G	1xE5-2670	1333MHz RDIMM	2x8GB	No	700	None	4xHS	SATA/SAS	DVD±RW	No	TPM	iKVM	No	No	2

Limited warranty	3-year parts and labor	1U 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 E5-2670 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)	Power supply Power 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	Social So
	 Over twelve RDIMMs requires dual processors Over eight LV RDIMMs requires dual processors Mixing of RDIMM and LV RDIMM is not supported 	Front
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	e optical disk disk disk
Disk bays Disk controller	Four 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	PSU PSU 2-PClex8 1-PClex16 PSU PSU DD DD DD DD
	Upgrade for 500: Additional upgrade key for RAID 500 adapter, add RAID 5 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 support	
RAID Support	Battery for 700: Intelligent Battery Backup Unit (iBBU08) for RAID 700 Up to RAID 0, 1, 5, 6, 10 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 Diskette	DVD±RW or DVD ROM, slim None (use USB port)	Mechanical
Chipset	Intel C602J Chipset	1U rack 19"W x 28.9"D x 1.72"H (with rack handles)
Ethernet	Two Gigabit Ethernet ports by Intel i350, one Gigabit Ethernet port by Intel 82574L, dedicate/share management	482.4mm W x 734mm D x 43.6mm H (with rack handles) 17kg (37.5 lb) when fully configured
Riser card Front ports	(See Right) Riser card 1 for slot 1, riser card 2 for slot 2 Two USB 2.0	Disk Bays
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	Bay 1 5.25", 0.5" high, external, for optical Bay 2-5 3.5", 1" high, external, for disk
	Supports IDM on selected models Basic: IDM LED lights indicate failing component category	Expansion Slots
Module (IDM) Systems mgmt	Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC);	Slot 1: half-length, full-height, PCI Express 3.0 x16 Slot 2: Low Profile, PCI Express 3.0 x8
	iKVM: add-on ThinkServer Management Module Premium for iKVM functions	Security
Security chip	No onboard TPM chip; TPM: additional add-on card for TPM function, TCG 1.2-compliant	Security chip (selected models, see information on left) Administrator password User password
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 sequence control Boot without keyboard, mouse, diskette Serial port I/O control USB port disablement (all)
Rack kit Cable management Cooling	Includes rack kit Optional cable management arm on selected models Up to eight fans (7+1 redundant), non-hot swap	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

ThinkServer RD530 with 3.5" Disk Bay (2570) - TopSeller (January 2013)

Product Specifications Reference (PSREF)

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
2570-A8G	1xE5-2609	1600MHz RDIMM	1x4GB	No	500	No	4xHS	SATA/SAS	DVD±RW	No	TPM	IPMI	No	No	1

Limited warranty	3-year parts and labor	1U Rack top
Processor	Up to two processors, one or two processors standard, Intel® Xeon® E5-2609 processor (4C/4T, 2.4GHz, 10MB, 6.4 GT/s QPI x2), 4-channel DDR3 memory controller (up to 1066MHz)	Power supply Power supply Riser card 2
Implementation	Two LGA2011 sockets	supp supp
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,	
Additional memory disclaimers	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	Memory CPU1 Society So
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	Front optical
Disk bays	Four 3.5" hot-swap SATA/SAS disk bays	⊚∘ □ □ □ :::: optical
Disk controller	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	disk disk disk disk
	Upgrade for 500: Additional upgrade key for RAID 500 adapter, add RAID 5 support	2 - PCle x8 1 - PCle x16
	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 support	PSU PSU DO DO DO DO
RAID Support	Battery for 700: Intelligent Battery Backup Unit (iBBU08) for RAID 700 Up to RAID 0, 1, 5, 6, 10 via ThinkServer RAID 700 adapter	
Disk(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm	-
DISK(S)	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	
Ethernet	Two Gigabit Ethernet ports by Intel i350, one Gigabit Ethernet port by Intel 82574L, dedicate/share management	Mechanical
Riser card	(See Right) Riser card 1 for slot 1, riser card 2 for slot 2	• 1U rack
Front ports	Two USB 2.0	19"W x 28.9"D x 1.72"H (with rack handles) 482.4mm W x 734mm D x 43.6mm H (with rack handles)
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	17kg (37.5 lb) when fully configured
Intelligent Diagnostics Module (IDM)	Supports IDM on selected models Basic: IDM LED lights indicate failing component category	Disk Bays
Systems mgmt	Onboard Aspeed AST2300 graphics/management processor,	Bay 1 5.25", 0.5" high, external, for optical Bay 2-5 3.5", 1" high, external, for disk
	IPMI 2.0-compliant baseboard management controller (BMC); iKVM: add-on ThinkServer Management Module Premium for iKVM	Expansion Slots
	functions	Slot 1: half-length, full-height, PCI Express 3.0 x16
Security chip	No onboard TPM chip; TPM: additional add-on card for TPM function, TCG 1.2-compliant	Slot 2: Low Profile, PCI Express 3.0 x8
Prerequisites	SATA/SAS disk, OS	Security
Keyboard/mouse	None (use USB port)	Security chip (selected models, see information on left) Administrator password
Power supply	One or two 800 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies	Administrator password User password
Rack kit	Includes rack kit	Boot sequence control
Cable management Cooling	Optional cable management arm on selected models Up to eight fans (7+1 redundant), non-hot swap	 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
		compilant

ThinkServer RD530 with 3.5" Disk Bay (2569) - 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
2569-A1G	2xE5-2640	1333MHz RDIMM	2x8GB	5	700+Battery	3x500GB 3.5"	SATA 4xHS	SATA/SAS	DVD±RW	No	TPM	iKVM	No	No	2

Limited warranty	1-year parts and labor	1U Rack top
Processor	Up to two processors, one or two processors standard, lintel® 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)	Power supply Power supply Power supply
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	WMamous CPU1 Sockets S
	Over eight LV RDIMMs requires dual processors Mixing of RDIMM and LV RDIMM is not supported	disk optical
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	Front optical
Disk bays Disk controller	Four 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	disk disk disk
	Upgrade for 500: Additional upgrade key for RAID 500 adapter, add RAID 5 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 support Battery for 700: Intelligent Battery Backup Unit (iBBU08) for RAID 700	PSU PSU 2-PCle x8 1-PCle x16 PSU
RAID Support	Up to RAID 0, 1, 5, 6, 10 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 Optical Diskette	None DVD±RW or DVD ROM, slim None (use USB port)	
Chipset	Intel C602J Chipset	Mashaniad
Ethernet Riser card Front ports Rear ports	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, riser card 2 for slot 2 Two USB 2.0 Four USB 2.0, one serial (9-pin), two ethernet (RJ-45),	 Mechanical 1U rack 19"W x 28.9"D x 1.72"H (with rack handles) 482.4mm W x 734mm D x 43.6mm H (with rack handles) 17kg (37.5 lb) when fully configured
near ports	one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector	Disk Bays
Intelligent Diagnostics Module (IDM) Systems mgmt	Supports IDM on selected models Basic: IDM LED lights indicate failing component category Onboard Aspeed AST2300 graphics/management processor,	Bay 1 5.25", 0.5" high, external, for optical Bay 2-5 3.5", 1" high, external, for disk
	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: Low Profile, PCI Express 3.0 x8
Security chip	No onboard TPM chip; TPM: additional add-on card for TPM function, TCG 1.2-compliant	Security
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	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 eight fans (7+1 redundant), non-hot swap	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

ThinkServer RD530 with 2.5" Disk Bay (2575) - 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
2575-A6G	1xE5-2640	1333MHz RDIMM	1 2x8GB	No	700	None	8xHS	SATA/SAS	No	No	TPM	IPMI	No	No	1

Limited warranty	3-year parts and labor	1U Rack top
Processor	Up to two processors, one or two processors standard, 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)	Power supply Power supply Riser slot
Implementation	Two LGA2011 sockets	g g u g
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	py Sockets Soc
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz	Front
Disk bays Disk controller	Eight 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 Intelligent Battery Backup Unit (iBBU08) for RAID 700	● □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
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	
		-
Disk(s)	2.5" SAS: SAS 6.0Gb/s, 10000 rpm SSD: Solid State Drive, 2.5"	
Tape drive Optical Diskette	None None (use USB port) None (use USB port)	
Chipset	Intel C602J Chipset	
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, riser card 2 for slot 2 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 sys mgmt), one analog VGA DB-15 connector Supports IDM on selected models Basic: IDE LED lights indicate failing component category Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); KVM model(s): add-on ThinkServer Management Module Premium for	Mechanical • 1U rack • 19"W x 28.4"D x 1.72"H (with rack handles) • 482.4mm W x 734mm D x 43.6mm H (with rack handles) • 17kg (37.5 lb) when fully configured Disk Bays Bay 1-8 2.5", 0.6" high, external, for disk Expansion Slots
Security chip	KVM functions No onboard TPM chip;	Slot 1: half-length, full-height, PCI Express 3.0 x16 Slot 2: Low Profile, PCI Express 3.0 x8
Prerequisites Keyboard/mouse Power supply Rack kit Cable management Cooling	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 Includes rack kit Optional cable management arm on selected models Up to eight fans (7+1 redundant), non-hot swap	Security Security Security chip (selected models, see information on left) Administrator password User password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control USB port disablement (all)
	op to significant (*** Forestrict on the on the	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