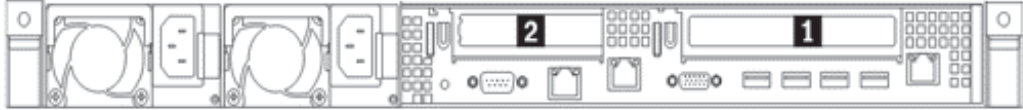# ThinkServer RD340 Platform Systems Specifications - I of II

Components	Specifications
Mechanical	• 1U rack with rail kit • 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
Chipset	**Intel C606 Chipset**
Processors	Two LGA1356 sockets, supports up to two processors from Intel **Xeon E5-2400** or **Xeon E5-2400 v2** families, up to 8 cores (E5-2400 series)/10 cores (E5-2400 v2 series), one QPI links up to 8.0GT/s, up to 20MB (E5-2400 series)/25MB (E5-2400 v2 series) cache, integrated 3-channel DDR3 memory controller up to 1600MHz
Memory type	1600MHz, LV RDIMM*, DDR3, 3-channel per processor, 240-pin *By default, the voltage of LV RDIMM is 1.5V and can be changed to1.35V in BIOS setting*
Memory DIMMs	Twelve DIMM sockets, six DIMM sockets per processor
Memory protection	ECC, memory mirroring, memory sparing
Disk bays configurations	Supports one of the following configurations • 4 x 3.5" disk bays + 1 x slim optical bay • 6 x 2.5" disk bays + 1 x slim optical bay • 8 x 2.5" disk bays

RAID support*

* RAID 50, 60 are supported on 8 x 2.5" disk bay models only

RAID adapter	RAID support**	Cache	Transfer rates	Optional upgrades
RAID 300 (onboard)	0, 1, 10		6Gb/s	optional upgrade key, add RAID 5 support
RAID 500 (LSI 9240-8i)	0, 1, 10		6Gb/s	optional upgrade key, add RAID 5, 50 support
RAID 700 (LSI 9260-8i)	0, 1, 10, 5, 50, 6, 60	512MB	6Gb/s	optional intelligent Battery Backup Unit (iBBU08)
RAID 710 (LSI 9270CV-8i)	0, 1, 10, 5, 50, 6, 60	1GB	6Gb/s	• optional CacheVault (CV) flash cache with super capacitor • optional CacheCade Pro 2.0 • optional FastPath key

Components	Specifications
Optical drive (optional)	4 x 3.5"/6 x 2.5" models: one slim optical bay, supports one optional slim optical 8 x 2.5" models: none optical bay, optional external USB optical is needed
Onboard network	Two Gigabit Ethernet ports by Intel i350, one Gigabit Ethernet port by Intel 82574L, dedicate/share management
Front ports	One analog VGA DB-15 connector (for 6 x 2.5"/8 x 2.5" models), two USB 2.0
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
Expansion Slots	 Two PCI-Express slots via two riser cards, riser card 1 for slot 1, riser card 2 for slot 2 Slot 1: half-length, full-height, PCI Express 3.0 x16 Slot 2: Low Profile, PCI Express 3.0 x8 (*x4 elec for single processor model, x8 elec for dual processors model*)
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front, one VGA DB-15 on rear; *Maximum resolution: 1920x1200@60Hz*
Intelligent Diagnostics Module (optional)	Supports optional Intelligent Diagnostics Module (IDM) basic, IDM basic LED lights indicate failing component category
Systems management (iKVM is optional)	• Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); optional ThinkServer Management Module Premium for iKVM functions • Front control panel LEDs shows the status of power, ID, network, system • Lenovo SmartGrid Manager • ThinkServer EasyStartup/EasyManage/EasyUpdate
Cooling fans	6 fans, non-hot swap, 5 + 1 redundant
Cable mgmt (opt)	Optional cable management arm on selected models

Components	Specifications		
Power supply	One or two 550 watts standard, two maximum, rear access, hot-swap, 80 PLUS Gold qualified, redundant with two power supplies		
Hot-swap parts	Disk drives, power supplies, and cooling fans		
Security features (TPM is optional)	Power-on password/administrator password/Trusted Platform Module (TCG 1.2-compliant)		
Safety, environment, and certifications	Environmental certifications	• **Energy Star Server 2.0** qualified • RoHS-compliant	
	EMC	FCC Class A, CSA, CE	
	240VA	Supports	
	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)	
	Temperature - non operating (no package)	-10 °C to 60 °C	
	Temperature - non operating (with package)	-40 °C to 70 °C	
	Altitude - operating	Supported Altitude (unpressurized): 0-10000ft (0-3048m)	
	Humidity - operating	8%~80%, non-condensing	
	Humidity - non operating (no package)	8%~80%, non-condensing	
	Humidity - non operating (with package)	8%~90%, non-condensing	

		System Configuration	
Acoustic noise (idle/working mode)	Category	Entry level	High-end
	CPU	1	2
	Memory	4GB x 1	4GB x 12
	Optical Drive	Slim optical	Slim optical
	Drive Bays	4 x 3.5"	6 x 2.5"
	RAID	RAID500	RAID500
	HDD	2 x 500GB 3.5" SATA	6 x 300GB 2.5" SAS
	PSU	550Wx1	550Wx2
	Sound Pressure (operating)	45.28 dB(A)	44.74 dB(A)
	Sound Pressure (idle)	45.28 dB(A)	44.95 dB(A)