

## Lenovo ThinkServer RD450 server (70Q90019EA)

Intel Xeon E5-2620v4 (20M Cache, 2.10 GHz), 16GB DDR4 2133MHz, 8x2.5" HS, AnyRAID 720ix + 2GB Flash, DVD±RW, 450Wx1 Gold, Rack 2U



### Price details:

Price excl. VAT: 2,634.25 €

Eco fees: 0.08 €

VAT 21 %: 553.21 €

### Product details:

Product code: 70Q90019EA

EAN: 0190151937697

Manufacturer: Lenovo

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# 3,187.54 €

\* VAT included

### Boasts High Performance & Reliability

If you need an enterprise server to run your business, but you're not ready to invest in a rack infrastructure or simply just need a tower form factor, the Lenovo ThinkServer TD340 is perfect for you. It packs in the performance of an entry-level rack server with up to two Intel® Xeon® E5-2400 v2 Series processors, giving you the power to run strenuous workloads, such as web, database and CRM - in addition to infrastructure and point-of-sale applications. Coupling that with high-reliability features, such as hot-swap hard disk and solid-state drives, integrated full-performance RAID, and redundant power, gives you peace of mind that your data will stay safe and your system will stay up and running.

### Grows as Your Business Needs Dictate

With the ThinkServer TD340, you'll find generous memory and storage capacity so you can grow your server as your business grows. With support for 192GB of memory and up to an enormous 32TB of hard-drive space, you'll have plenty of room to expand. Six available PCIe/PCI slots give you the capability to add rich I/O options - covering various protocols, speeds, and interfaces - including advanced RAID, super-fast 10Gb Ethernet, or a Fibre Channel host bus adapter. Choose the ThinkServer TD340 for a highly scalable, enterprise-ready server at the cost-efficient price of a tower.

### Fits Easily into Your Environment

The TD340 uses open industry standards and protocols, so it integrates easily into your environment. That means you can use your existing management tools with the TD340 - if you have them - or try ours at no additional charge. In addition to a front-side diagnostic panel, a built-in management module means you can remotely access your server, regardless of its power state - reducing the need for onsite support. And, at 32 decibels, the TD340 is quieter than a typical library. Plus, it's ENERGY STAR-certified, so it's easy on your power bill. That translates to a tower server - with all the power of an enterprise rack machine - perfect for the business that needs quiet, efficient, easy-to-manage technology.

### Main specifications:

#### Processor

Processor frequency:	2.1 GHz
Processor family:	Intel Xeon E5 v4
Processor model:	E5-2620V4
Processor cores:	8
Number of processors installed:	1
Processor cache type:	Smart Cache
Processor cache:	20 MB
System bus rate:	8 GT/s
Processor socket:	LGA 2011-v3
Processor boost frequency:	3 GHz
Processor lithography:	14 nm
Processor threads:	16

Processor operating modes:	64-bit
Stepping:	R0
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Broadwell
Tcase:	74 °C
Maximum internal memory supported by processor:	512 GB
Memory types supported by processor:	DDR4-SDRAM
Memory clock speeds supported by processor:	1600,1866,2133 MHz
Memory bandwidth supported by processor (max):	68.3 GB/s
Memory channels supported by processor:	Quad
ECC supported by processor:	Y
Execute Disable Bit:	Y
Idle States:	Y
Thermal Monitoring Technologies:	Y
Maximum number of PCI Express lanes:	40
Processor package size:	52.5 x 51 mm
Supported instruction sets:	AVX 2.0
Processor code:	SR2R6
Scalability:	2S
Physical Address Extension (PAE):	Y
Physical Address Extension (PAE):	46 bit
Embedded options available:	Y
Thermal Design Power (TDP):	85 W
Processor series:	Intel Xeon E5-2600 v4
Conflict Free processor:	Y

#### Memory

Internal memory:	16 GB
Internal memory type:	DDR4-SDRAM
Maximum internal memory:	512 GB
Memory slots:	16
Memory clock speed:	2133 MHz
Memory layout (slots x size):	1 x 16 GB

#### Storage

RAID support:	Y
RAID levels:	0,1,5,6,10,50,60
Internal drive bays:	8
Supported hard disk drive sizes:	2.5 "

#### Networking

Ethernet LAN:	Y
Cabling technology:	10/100/1000Base-T(X)
Ethernet interface type:	Gigabit Ethernet

#### Ports & interfaces

USB 2.0 ports quantity:	2
VGA (D-Sub) ports quantity:	1
Ethernet LAN (RJ-45) ports:	3
Serial ports quantity:	1
USB 3.0 (3.1 Gen 1) Type-A ports quantity:	2
DisplayPorts quantity:	1

#### Expansion slots

PCI Express x8 (Gen 3.x) slots:	4
PCI Express slots version:	3.0

#### Design

Chassis type:	Rack (2U)
Optical drive type:	DVD±RW
Redundant fans support:	Y

#### Performance

Operating system installed:	N
Compatible operating systems:	Windows Server 2012 R2 Windows Server 2012 Windows Server 2008 R2 SUSE Linux Enterprise Server Red Hat Enterprise Linux Server VMware ESXi

#### Processor special features

CPU configuration (max):	2
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Enhanced Intel SpeedStep Technology:	Y
Intel® Identity Protection Technology (Intel® IPT):	
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel® Hyper Threading Technology (Intel® HT Technology):	
Intel® Turbo Boost Technology:	2.0
Intel® vPro® Technology:	Y
Intel Flex Memory Access:	N
Intel® AES New Instructions (Intel® AES-NI):	Y
Intel Trusted Execution Technology:	Y
Intel Enhanced Halt State:	Y
Intel VT-x with Extended Page Tables (EPT):	Y
Intel Demand Based Switching:	Y
Intel® Secure Key:	Y
Intel TSX-NI:	Y
Intel® OS Guard:	Y
Intel 64:	Y
Intel Virtualization Technology (VT-x):	Y
Processor ARK ID:	92986

#### Power

Power supply:	450 W
Number of main power supplies:	1

#### Operational conditions

Operating temperature (T-T):	10 - 35 °C
Storage temperature (T-T):	-10 - 60 °C
Operating relative humidity (H-H):	8 - 90 %
Storage relative humidity (H-H):	8 - 90 %
Operating altitude:	0 - 3048 m

#### Weight & dimensions

Width:	482 mm
Depth:	783 mm
Height:	87 mm

#### Other features

Graphics adapter:	AST2400
Graphics adapter family:	Aspeed