

Lenovo ThinkServer RD650 server (70D40018EA)

ThinkServer RD650, 2U, Intel C612, Intel Xeon E5-2630 v3, 8GB DDR4-2133MHz RDIMM, Aspeed AST2400, ThinkServer RAID 720ix AnyRAID +1GB RAM, 9 x 3.5" + 6 x 2.5" HS, 10-gigabit Ethernet, Redundant hot-swap 750W Platinum

Price details:

Price excl. VAT: 4,628.31 €

Eco fees: 0.11 €

VAT 21 %: 971.97 €

Product details:

Product code: 70D40018EA

EAN: 0888965169211

Manufacturer: Lenovo

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5,600.39 €

Product is discontinued. You can not order it anymore.

* VAT included

Outstanding Storage Density.

Tremendous internal storage capacity and more I/O connectivity than ever before is the result of an innovative design on the new ThinkServer RD650. With up to 26 drive bays and 74.4TB of internal storage capacity, the RD650 is great for storage-hungry applications such as databases, data analytics clusters, and video streaming. Two additional enterprise-class M.2 solid-state drives (SSDs) are available as an option for secure booting, as well as SD card options for hypervisor booting. Up to eight PCIe slots give you plenty of bandwidth to scale your I/O. Plus, for ultimate performance, the industry-unique Lenovo AnyBay design allows multiple storage types in the same drive bay, including front-accessible PCIe SSD. Based on 6TB drives coming soon.

Highly Flexible Design.

The latest Intel® Xeon® processors, large memory capacity, and loads of storage, combined with multiple chassis types, RAID choices, and I/O options, make it easy to create the perfect RD650 configuration to run your business-critical applications. In addition to the standard 3.5- and 2.5-inch chassis, the RD650 offers a unique hybrid option with nine 3.5-inch and six 2.5-inch drive bays in the front and two 2.5-inch drive bays in the back-great for creating a tiered storage environment. Leveraging the new Lenovo AnyFabric and AnyRAID designs, the RD650 can house up to four 10Gb Ethernet ports and your choice of RAID adapter without taking up any of the available PCIe slots.

Extra-Reliable Performance.

Data center cooling costs can be greater than the cost of powering the IT equipment itself. One way to reduce these cooling costs is by operating the data center at a higher temperature. With a dynamic environmental design, the RD650 can run continuously at 45 degrees Celsius-with no impact on reliability. In fact, the system has been carefully architected and tested to support long-term reliability. The RD650 is also perfect for organizations that install servers in less strictly controlled environments. Other high-reliability features include error correcting code (ECC) memory, hot-swap hard-disk drive and SSD capability, and hot-swap and redundant power and cooling.

Main specifications:

Processor

Processor frequency:	2.4 GHz
Processor family:	Intel Xeon E5 v3
Processor model:	E5-2630V3
Processor cores:	8
Number of processors installed:	1
Processor cache type:	Smart Cache
Processor cache:	20 MB
System bus rate:	8 GT/s
Processor manufacturer:	Intel
Maximum number of SMP processors:	2
Compatible processor series:	Xeon

Processor socket:	LGA 2011-v3
Motherboard chipset:	Intel C612
Processor boost frequency:	3.2 GHz
Processor lithography:	22 nm
Processor threads:	16
Processor operating modes:	64-bit
Stepping:	R2
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Haswell
Tcase:	72.1 °C
Maximum internal memory supported by processor:	768 GB
Memory types supported by processor:	DDR4-SDRAM
Memory clock speeds supported by processor:	1600,1866 MHz
Memory bandwidth supported by processor (max):	59 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
PCI Express configurations:	x4, x8, x16
Processor package size:	52.5 mm
Supported instruction sets:	AVX
Processor code:	SR206
Scalability:	2S
Physical Address Extension (PAE):	Y
Physical Address Extension (PAE):	46 bit
Embedded options available:	N
Thermal Design Power (TDP):	85 W
Processor series:	Intel Xeon E5-2600 v3
Conflict Free processor:	N

Memory

Internal memory:	8 GB
Internal memory type:	DDR4-SDRAM
Maximum internal memory:	768 GB
Memory slots:	24
Memory clock speed:	2133 MHz
ECC:	Y
Memory layout (slots x size):	1 x 8 GB

Storage

RAID support:	Y
Maximum storage capacity:	63.2 TB
RAID levels:	0,1,5,6,10,50,60
Number of hard drives supported:	17
Supported hard disk drive sizes:	2.5,3.5 "
Hot-swap:	Y
Supported storage drive interfaces:	SAS,Serial ATA III

Graphics

Maximum graphics adapter memory:	16 MB
On-board graphics adapter:	Y

Networking

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

Ports & interfaces

Ethernet LAN (RJ-45) ports:	5
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:	8
PCI Express slots version:	3.0

Design

Chassis type:	Rack (2U)
Optical drive type:	N
Rack mounting:	Y
Redundant fans support:	Y

Performance

Operating system installed:	N
Compatible operating systems:	Microsoft Windows Server 2012 R2 (Hyper-V)Microsoft Windows Server 2012 (Hyper-V)Microsoft Windows Server 2008 R2 SP1 (Hyper-V)SUSE Linux Enterprise ServerRed Hat Enterprise Linux ServerVMware vSphere ESXiCitrix XenServer

Processor special features

CPU configuration (max):	2
Intel Rapid Storage Technology:	N
Enhanced Intel SpeedStep Technology:	Y
Intel® Identity Protection Technology (Intel® IPT):	N
Intel® Wireless Display (Intel® WiDi):	N
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel® Anti-Theft Technology (Intel® AT):	N
Intel® Hyper Threading Technology (Intel® HT Technology):	Y
Intel® My WiFi Technology (Intel® MWT):	N
Intel® Turbo Boost Technology:	2.0
Intel® vPro® Technology:	Y
Intel® Quick Sync Video Technology:	N
Intel® InTru® 3D Technology:	N
Intel® Clear Video HD Technology (Intel® CVT HD):	N
Intel® Insider®:	N
Intel Flex Memory Access:	N
Intel® Smart Cache:	Y
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:	N
Intel® OS Guard:	Y
Intel Clear Video Technology:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	N
Intel 64:	Y
Intel Identity Protection Technology version:	0.00
Intel Secure Key Technology version:	1.00
Intel Virtualization Technology (VT-x):	Y
Intel TSX-NI version:	0.00
Intel Dual Display Capable Technology:	N
Intel FDI Technology:	N
Intel Fast Memory Access:	N
Processor ARK ID:	83356

Power

Redundant power supply (RPS) support:	Y
Power supply:	750 W
Number of redundant power supplies supported:	2
Number of redundant power supplies installed:	1

Operational conditions

Operating temperature (T-T):	10 - 45 °C
Storage temperature (T-T):	-10 - 60 °C
Operating relative humidity (H-H):	20 - 80 %
Storage relative humidity (H-H):	8 - 90 %

Weight & dimensions

Width:	482 mm
Depth:	764 mm
Height:	87 mm

Other features

Graphics adapter:	AST2400
Graphics adapter family:	Aspeed

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