



# Lenovo Intel Xeon E5-2640 v4 processor 2.4 GHz 25 MB Smart Cache



**Brand :** Lenovo

**Product code:** 00YJ199

**Product name :** Intel Xeon E5-2640 v4

Intel Xeon E5-2640 v4, 25M Cache, 2.4 GHz, 8 GT/s QPI, Factory Integrated

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Increase the processing power of your ThinkServer Dual-Socket systems with Intel Xeon E5-2600 family processors to boost your system's performance for advanced applications, technical computing, multithread applications, virtualization, and multitasking.



The ThinkServer solutions based on the new Intel Xeon processor E5-2600 family deliver the best combination of performance, built-in capabilities, and cost-effectiveness to make data centers more flexible and efficient. From virtualization and cloud computing solutions to design automation or real-time financial transactions, you'll be delighted by better than ever performance no matter what tasks you face.

Processor		Features	
Processor model *	E5-2640V4	Maximum number of PCI Express lanes	40
Processor base frequency *	2.4 GHz	PCI Express slots version	3.0
Processor family *	Intel® Xeon® E5 v4	Supported instruction sets	AVX 2.0
Processor cores *	10	Scalability	25
Processor socket *	LGA 2011-v3	Physical Address Extension (PAE)	✓
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	14 nm	Embedded options available	✓
Processor series	Intel Xeon E5-2600 v4	Physical Address Extension (PAE)	46 bit
Processor threads	20	<b>Processor special features</b>	
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor boost frequency	3.4 GHz	Intel® Turbo Boost Technology	2.0
Processor cache	25 MB	Intel Flex Memory Access	✗
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	90 W	Enhanced Intel SpeedStep Technology	✓
Cooler included *	✗	Intel Trusted Execution Technology	✓
Stepping	R0	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Number of QPI links	2	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	68.3 GB/s	Intel TSX-NI	✓
Processor codename	Broadwell	Intel® OS Guard	✓
<b>Memory</b>		Intel 64	✓
Maximum internal memory supported by processor	1.54 TB	Intel Virtualization Technology (VT-x)	✓
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	<b>Operational conditions</b>	
ECC	✓	Tcase	76 °C
<b>Graphics</b>		<b>Other features</b>	
On-board graphics card *	✗	Compatibility	System x3650 M5
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
<b>Features</b>			
Execute Disable Bit	✓		

## Features

Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server



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