



# Lenovo System x3650 M5 server Rack (2U) Intel® Xeon® E5 v4 E5-2680V4 2.4 GHz 16 GB DDR4-SDRAM 900 W

**Brand :** Lenovo

**Product family:** System

**Product code:** 8871KNU

**Product name :** x3650 M5

1x E5-2680 v4 14C 2.4GHz 35MB 2400MHz 120W, 1x 16GB DDR4, RAID M5210, 8x 2.5" HS, 4x GbE, 1x 900W HS

Lenovo System x3650 M5. Processor family: Intel® Xeon® E5 v4, Processor frequency: 2.4 GHz, Processor model: E5-2680V4. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM, Memory layout (slots x size): 1 x 16 GB. Ethernet LAN, Cabling technology: 10/100/1000Base-T(X). Power supply: 900 W, Redundant power supply (RPS) support. Chassis type: Rack (2U)



Processor		Expansion slots	
Processor manufacturer *	Intel	PCI Express x8 (Gen 3.x) slots	8
Processor family *	Intel® Xeon® E5 v4	PCI Express slots version	3.0
Processor model *	E5-2680V4	<b>Design</b>	
Processor frequency *	2.4 GHz	Chassis type *	Rack (2U)
Processor boost frequency	3.3 GHz	Rack mounting	✓
Processor cores	14	Redundant fans support	✓
Processor cache	35 MB	Rack rails	✓
Memory channels supported by processor	Quad	<b>Performance</b>	
Number of processors installed	1	Trusted Platform Module (TPM)	✓
Thermal Design Power (TDP)	120 W	On-site support	✓
Processor cache type	Smart Cache	Trusted Platform Module (TPM) version	2.0
System bus rate	9.6 GT/s	<b>Software</b>	
Processor socket	LGA 2011-v3	Operating system installed *	✗
Processor lithography	14 nm	Compatible operating systems *	Microsoft Windows Server Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware vSphere
Processor threads	28	<b>Processor special features</b>	
Processor operating modes	64-bit	CPU configuration (max)	2
Stepping	M0	Enhanced Intel SpeedStep Technology	✓
Bus type	QPI	Intel® Identity Protection Technology (Intel® IPT)	✗
Number of QPI links	2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor codename	Broadwell	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Tcase	86 °C	Intel® Turbo Boost Technology	2.0
Maximum internal memory supported by processor	1.54 TB	Intel Flex Memory Access	✗
Memory types supported by processor	DDR4-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Intel Trusted Execution Technology	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel Enhanced Halt State	✓
ECC supported by processor	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Execute Disable Bit	✓	Intel Demand Based Switching	✓
Idle States	✓		
Thermal Monitoring Technologies	✓		
Maximum number of PCI Express lanes	40		
Processor package size	45 x 52.5 mm		

<b>Processor</b>		<b>Processor special features</b>	
Supported instruction sets	AVX 2.0	Intel® Secure Key	✓
Processor code	SR2N7	Intel TSX-NI	✓
Scalability	2S	Intel® OS Guard	✓
Physical Address Extension (PAE)	✓	Intel 64	✓
Physical Address Extension (PAE)	46 bit	Intel Identity Protection Technology version	0.00
Embedded options available	✓	Intel Secure Key Technology version	1.00
Processor series	Intel Xeon E5-2600 v4	Intel Virtualization Technology (VT-x)	✓
Conflict-Free processor	✓	Intel TSX-NI version	1.00
<b>Memory</b>		Processor ARK ID	91754
Internal memory *	16 GB	<b>Power</b>	
Internal memory type *	DDR4-SDRAM	Redundant power supply (RPS) support *	✓
Memory slots	24	Power supply *	900 W
Memory layout (slots x size)	1 x 16 GB	<b>Operational conditions</b>	
Maximum internal memory *	1.54 TB	Operating temperature (T-T)	5 - 40 °C
<b>Storage</b>		Storage temperature (T-T)	5 - 45 °C
Maximum storage capacity *	147.6 TB	Operating relative humidity (H-H)	8 - 85%
RAID support *	✓	Storage relative humidity (H-H)	8 - 85%
Hot-Plug support	✓	Operating altitude	0 - 3050 m
Hot-swap	✓	<b>Weight &amp; dimensions</b>	
Optical drive type *	✗	Width	446 mm
Supported storage drive interfaces	SAS, Serial ATA	Depth	800 mm
<b>Graphics</b>		Height	87 mm
On-board graphics card	✓	Weight	19 kg
Maximum graphics card memory	16 MB	<b>Technical details</b>	
<b>Network</b>		Internal I/O Expansion Module x8 Gen 3	3
Ethernet LAN	✓	Number of 2.5" bays	8
Cabling technology	10/100/1000Base-T(X)	Sustainability certificates	ENERGY STAR
Ethernet interface type	Gigabit Ethernet	<b>Other features</b>	
<b>Ports &amp; interfaces</b>		Graphics card	G200eR2
Ethernet LAN (RJ-45) ports *	4	Graphics card family	Matrox
USB 2.0 ports quantity	1	Integrated BMC with IPMI	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	2	Integrated LAN	✓
VGA (D-Sub) ports quantity	1		

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