



Lenovo System x3650 M5 server Rack (2U) Intel® Xeon® E5 v4 E5-2660V4 2 GHz 64 GB DDR4-SDRAM 900 W

Brand : Lenovo

Product family: System

Product code: 8871KZU

Product name : x3650 M5

2x E5-2660 v4 14C 2.0GHz 35MB 2400MHz 105W, 4x 16GB DDR4, RAID M5210 1GB (F), 12x 3.5" HS, 4x GbE, 2x 900W HS

Lenovo System x3650 M5. Processor family: Intel® Xeon® E5 v4, Processor frequency: 2 GHz, Processor model: E5-2660V4. Internal memory: 64 GB, Internal memory type: DDR4-SDRAM, Memory layout (slots x size): 4 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 slots version	3.0
Processor family *	Intel® Xeon® E5 v4	Design	
Processor model *	E5-2660V4	Chassis type *	Rack (2U)
Processor frequency *	2 GHz	Rack mounting	✓
Processor boost frequency	3.2 GHz	Redundant fans support	✓
Processor cores	14	Rack rails	✓
Processor cache	35 MB	Performance	
Memory channels supported by processor	Quad	Trusted Platform Module (TPM)	✓
Number of processors installed	2	On-site support	✓
Thermal Design Power (TDP)	105 W	Trusted Platform Module (TPM) version	2.0
Processor cache type	Smart Cache	Software	
System bus rate	9.6 GT/s	Operating system installed *	✗
Processor socket	LGA 2011-v3	Compatible operating systems *	Microsoft Windows Server Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware vSphere
Processor lithography	14 nm	Processor special features	
Processor threads	28	CPU configuration (max)	2
Processor operating modes	64-bit	Enhanced Intel SpeedStep Technology	✓
Stepping	M0	Intel® Identity Protection Technology (Intel® IPT)	✗
Bus type	QPI	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of QPI links	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor codename	Broadwell	Intel® Turbo Boost Technology	2.0
Tcase	79 °C	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	✓	Intel® Secure Key	✓
Thermal Monitoring Technologies	✓		
Maximum number of PCI Express lanes	40		
Processor package size	45 x 52.5 mm		
Supported instruction sets	AVX 2.0		
Processor code	SR2N4		

Processor		Processor special features	
Scalability	25	Intel TSX-NI	✓
Physical Address Extension (PAE)	✓	Intel® OS Guard	✓
Physical Address Extension (PAE)	46 bit	Intel 64	✓
Embedded options available	✗	Intel Identity Protection Technology version	0.00
Processor series	Intel Xeon E5-2600 v4	Intel Secure Key Technology version	1.00
Conflict-Free processor	✓	Intel Virtualization Technology (VT-x)	✓
Memory		Intel TSX-NI version	1.00
Internal memory *	64 GB	Processor ARK ID	91772
Internal memory type *	DDR4-SDRAM	Power	
Memory slots	24	Redundant power supply (RPS) support *	✓
Memory layout (slots x size)	4 x 16 GB	Power supply *	900 W
Maximum internal memory *	1.54 TB	Operational conditions	
Storage		Operating temperature (T-T)	5 - 40 °C
Maximum storage capacity *	147.6 TB	Storage temperature (T-T)	5 - 45 °C
RAID support *	✓	Operating relative humidity (H-H)	8 - 85%
Hot-Plug support	✓	Storage relative humidity (H-H)	8 - 85%
Hot-swap	✓	Operating altitude	0 - 3050 m
Optical drive type *	✗	Weight & dimensions	
Supported storage drive interfaces	SAS, Serial ATA	Width	446 mm
Graphics		Depth	800 mm
On-board graphics card	✓	Height	87 mm
Maximum graphics card memory	16 MB	Weight	19 kg
Network		Technical details	
Ethernet LAN	✓	Internal I/O Expansion Module x8 Gen 3	3
Cabling technology	10/100/1000Base-T(X)	Number of 3.5" bays	12
Ethernet interface type	Gigabit Ethernet	Sustainability certificates	ENERGY STAR
Ports & interfaces		Other features	
Ethernet LAN (RJ-45) ports *	4	Graphics card	G200eR2
USB 2.0 ports quantity	4	Graphics card family	Matrox
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	3	Integrated BMC with IPMI	✓
VGA (D-Sub) ports quantity	1	Integrated LAN	✓
Expansion slots			
PCI Express x8 (Gen 3.x) slots	8		

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