



Lenovo System x3650 M5 server Rack (2U) Intel® Xeon® E5 v4 E5-2640V4 2.4 GHz 32 GB DDR4-SDRAM 900 W

Brand : Lenovo

Product family: System

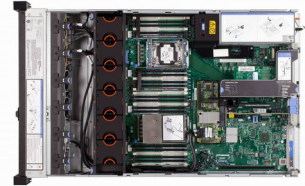
Product code: 887116F

Product name : x3650 M5



1x E5-2640 v4 10C 2.4GHz 25MB 2133MHz 90W, 1x 32GB DDR4, RAID M5210, 24x 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: E5-2640V4. Internal memory: 32 GB, Internal memory type: DDR4-SDRAM, Memory layout (slots x size): 1 x 32 GB. Ethernet LAN, Cabling technology: 10/100/1000Base-T(X). Power supply: 900 W, Redundant power supply (RPS) support. Chassis type: Rack (2U)



Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	2
Processor family *	Intel® Xeon® E5 v4	VGA (D-Sub) ports quantity	1
Processor model *	E5-2640V4	Expansion slots	
Processor frequency *	2.4 GHz	PCI Express x8 (Gen 3.x) slots	8
Processor boost frequency	3.4 GHz	PCI Express slots version	3.0
Processor cores	10	Design	
Processor cache	25 MB	Chassis type *	Rack (2U)
Memory channels supported by processor	Quad	Rack mounting	✓
Number of processors installed	1	Redundant fans support	✓
Thermal Design Power (TDP)	90 W	Rack rails	✓
Processor cache type	Smart Cache	Performance	
System bus rate	8 GT/s	Trusted Platform Module (TPM)	✓
Processor socket	LGA 2011-v3	On-site support	✓
Processor lithography	14 nm	Trusted Platform Module (TPM) version	2.0
Processor threads	20	Software	
Processor operating modes	64-bit	Operating system installed *	✗
Stepping	R0	Compatible operating systems *	Microsoft Windows Server Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware vSphere
Bus type	QPI	Processor special features	
Number of QPI links	2	CPU configuration (max)	2
Processor codename	Broadwell	Enhanced Intel SpeedStep Technology	✓
Tcase	76 °C	Intel® Identity Protection Technology (Intel® IPT)	✗
Maximum internal memory supported by processor	1.54 TB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Intel® Turbo Boost Technology	2.0
Memory bandwidth supported by processor (max)	68.3 GB/s	Intel Flex Memory Access	✗
ECC supported by processor	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Execute Disable Bit	✓	Intel Trusted Execution Technology	✓
Idle States	✓		
Thermal Monitoring Technologies	✓		
Maximum number of PCI Express lanes	40		
PCI Express configurations	1x4, 1x8, 1x16		

Processor		Processor special features	
Processor package size	52.5 x 51 mm	Intel VT-x with Extended Page Tables (EPT)	✓
Supported instruction sets	AVX 2.0	Intel Demand Based Switching	✓
Scalability	2S	Intel® Secure Key	✓
Physical Address Extension (PAE)	✓	Intel TSX-NI	✓
Physical Address Extension (PAE)	46 bit	Intel® OS Guard	✓
Embedded options available	✓	Intel 64	✓
Processor series	Intel Xeon E5-2600 v4	Intel Virtualization Technology (VT-x)	✓
Conflict-Free processor	✓	Processor ARK ID	92984
Memory		Power	
Internal memory *	32 GB	Redundant power supply (RPS) support *	✓
Internal memory type *	DDR4-SDRAM	Power supply *	900 W
Memory slots	24	Operational conditions	
Memory layout (slots x size)	1 x 32 GB	Operating temperature (T-T)	5 - 40 °C
Maximum internal memory *	1.54 TB	Storage temperature (T-T)	5 - 45 °C
Storage		Operating relative humidity (H-H)	8 - 85%
Maximum storage capacity *	147.6 TB	Storage relative humidity (H-H)	8 - 85%
RAID support *	✓	Operating altitude	0 - 3050 m
Hot-Plug support	✓	Weight & dimensions	
Hot-swap	✓	Width	446 mm
Optical drive type *	✗	Depth	800 mm
Supported storage drive interfaces	SAS, Serial ATA	Height	87 mm
Graphics		Weight	19 kg
On-board graphics card	✓	Technical details	
On-board graphics card model	Not available	Internal I/O Expansion Module x8 Gen 3	3
Maximum graphics card memory	16 MB	Number of 2.5" bays	24
Network		Sustainability certificates	ENERGY STAR
Ethernet LAN	✓	Other features	
Cabling technology	10/100/1000Base-T(X)	Graphics card	G200eR2
Ethernet interface type	Gigabit Ethernet	Graphics card family	Matrox
Ports & interfaces		Integrated BMC with IPMI	✓
Ethernet LAN (RJ-45) ports *	4	Integrated LAN	✓
USB 2.0 ports quantity	2		

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