



Lenovo System x3650 M5 server Rack (2U) Intel® Xeon® E5 v4 E5-2699V4 2.2 GHz 16 GB DDR4-SDRAM 900 W

Brand : Lenovo

Product family: System

Product code: 8871KTU

Product name : x3650 M5

1x E5-2699 v4 22C 2.2GHz 55MB 2400MHz 145W, 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: 2.2 GHz, Processor model: E5-2699V4. 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 * | E5-2699V4 | Design | |
| Processor frequency * | 2.2 GHz | Chassis type * | Rack (2U) |
| Processor boost frequency | 3.6 GHz | Rack mounting | ✓ |
| Processor cores | 22 | Redundant fans support | ✓ |
| Processor cache | 55 MB | Rack rails | ✓ |
| Memory channels supported by processor | Quad | Performance | |
| Number of processors installed | 1 | Trusted Platform Module (TPM) | ✓ |
| Thermal Design Power (TDP) | 145 W | On-site support | ✓ |
| Processor cache type | Smart Cache | Trusted Platform Module (TPM) version | 2.0 |
| System bus rate | 9.6 GT/s | Software | |
| 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 | 44 | Processor special features | |
| Processor operating modes | 64-bit | CPU configuration (max) | 2 |
| Stepping | B0 | 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 | 79 °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 | | |
| PCI Express configurations | 1x16, 1x4, 1x8 | | |

| | | | |
|---|-----------------------|--|-------------|
| Processor | | Processor special features | |
| Processor package size | 45 x 52.5 mm | Intel® Secure Key | ✓ |
| Supported instruction sets | AVX 2.0 | Intel TSX-NI | ✓ |
| Processor code | SR30Y | Intel® OS Guard | ✓ |
| Scalability | 2S | 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 |
| Memory | | Processor ARK ID | 91317 |
| Internal memory * | 16 GB | Power | |
| 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 | Operational conditions | |
| Maximum internal memory * | 1.54 TB | Operating temperature (T-T) | 5 - 40 °C |
| Storage | | 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 | ✓ | Weight & dimensions | |
| Optical drive type * | ✗ | Width | 446 mm |
| Supported storage drive interfaces | SAS, Serial ATA | Depth | 800 mm |
| Graphics | | Height | 87 mm |
| On-board graphics card | ✓ | Weight | 19 kg |
| Maximum graphics card memory | 16 MB | Technical details | |
| Network | | 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 | Other features | |
| Ports & interfaces | | 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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