# Supermicro MBD-X10SRM-TF, Single SKT, Intel C612 Chipset, SATA, 2x10GbE, IPMI, M.2

## Kod producenta: MBD-X10SRM-TF-O



| | |
|---|---|
| Form Factor | uATX |
| Dimensions | 9.6" x 9.6" |
| CPU Socket | LGA 2011 (Socket R3) |
| # of CPU sockets | 1 |
| Supported CPU's | Intel Xeon E5-2600v4<br>Intel Xeon E5-2600v3<br>Intel Xeon E5-1600v4<br>Intel Xeon E5-1600v3 |
| Chipset | Intel C612 Wellsburg |
| Memory Type | DDR4 ECC 3DS LRDIMM<br>DDR4 ECC LRDIMM<br>DDR4 ECC RDIMM |
| Memory Speed | 2400 MHz<br>2133 MHz<br>1866 MHz<br>1600 MHz |
| # of DIMM's | 4 |
| Max Memory Size | 512 GB |
| Integrated GPU | Aspeed AST2400 |
| # of PCIe x16 3.0 | 1 |
| # of PCIe x8 3.0 | 2 |
| # of USB Ports | 2 x USB 3.0 (rear)<br>2 x USB 3.0 (header)<br>1 x USB 3.0 Type A<br>2 x USB 2.0 (rear)<br>4 x USB 2.0 (header) |
| # of SATA Ports | 10 |
| Storage Controllers | 10 x AHCI iSATA 6Gb/s |
| Integrated RAID | 0,1,10 |
| # of Serial Ports | 1 x Fast UART 16550 (rear)<br>1 x Fast UART 16550 (header) |
| # of 10GbE Ports | 2 x Base-T |
| Network Controllers | Intel x550 Dual Port 10 Gigabit Base-T |
| Integrated BMC | IPMI 2.0<br>KVM-over-LAN<br>Virtual Media over LAN<br>IPMI Dedicated RJ45 PHY |
| BMC chip | Aspeed AST2400 |
| TPM | 1 x TPM 1.2 20-pin Header |

## Product SKUs

| MBD-X10SRM-TF-B | • X10SRM-TF (Bulk Pack) |
|---|---|

## Physical Stats

| Form Factor | • Micro ATX |
|---|---|
| Dimensions | • 9.6" x 9.6", (24.4cm x 24.4cm) |

## Processor

| CPU | - Intel® Xeon® processor E5-2600 **v4**† / v3, E5-1600 **v4**†/ v3 family (up to 145W TDP **) <br> - Single Socket R3 (LGA 2011) |
|---|---|
| Core / Cache | - Up to **22 Cores**† / Up to **55MB**† Cache |
| Note | † BIOS version 2.0 or above is required |
| Note | ** Motherboard supports this maximum TDP. Please verify your system can thermally support |

## System Memory

| Memory Capacity | - 4x 288-pin DDR4 DIMM slots <br> - Up to 512GB ECC 3DS LRDIMM <br> - Up to 256GB ECC LRDIMM <br> - Up to 128GB ECC RDIMM |
|---|---|
| Memory Type | - **2400**†/ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs |
| DIMM Sizes | - 3DS LRDIMM: 128GB <br> - LRDIMM: 64GB, 32GB <br> - RDIMM: 32GB, 16GB, 8GB, 4GB |
| Memory Voltage | - 1.2 V |
| Error Detection | - Corrects single-bit errors <br> - Detects double-bit errors (using ECC memory) |

## On-Board Devices

| Chipset | - Intel C612 chipset |
|---|---|
| SATA | - SATA3 (6Gbps) via C612 controller <br> - RAID 0, 1, 10 support |
| IPMI | - Support for Intelligent Platform Management Interface v.2.0 <br> - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support <br> - ASPEED AST2400 BMC |
| Network Controllers | - Dual LAN with Intel® X550 10GBase-T Ethernet Controller <br> - Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output |
| Graphics | - ASPEED AST2400 BMC |

## Input / Output

| SATA | - 10x SATA3 (6Gbps) ports |
|---|---|
| LAN | - 2x RJ45 10GBase-T Ethernet LAN ports <br> - 1x RJ45 Dedicated IPMI LAN port |
| USB | - 5x USB 3.0 ports (2 rear + 2 via header + 1 Type A) <br> - 6x USB 2.0 ports (2 rear + 4 via header) |
| Video | - 1x VGA port |
| Serial Port / Header | - 2x COM ports (1 rear, 1 header) |
| SuperDOM | - 2x SuperDOM (Disk on Module) ports with built-in power |
| TPM | - 1 TPM Header |

## OS Compatibility

• Please reference the **OS Compatibility Chart** for details

## Chassis (Optimized for X10SRM-TF )

| 1U Chassis: | - SC514-R400C <br> - SC514-505 <br> - SC515-R407 <br> - SC515-505 <br> - SC515-350 <br> - SC113MFAC2-605CB <br> - SC113MFAC2-R606CB <br> - SC813MFTQC-R407CB <br> - SC813MFTQC-350CB |
|---|---|
| 2U Chassis: | - SC825TQC-R740LPB <br> - SC825MTQ-R700LPB <br> - SC213LT-600LPB <br> - SC823TQ-653LPB |
| 3U Chassis: | - SC833T-653B |
| Mid/Mini Tower Chassis: | - SC731i-300B |
| Important Chassis Notes | - To support the new generation Intel® Xeon® processor-based motherboards, **Revision M** chassis is recommended. Please talk to your sales representative for details. |

## Expansion Slots

| PCI-Express | - 1x PCI-E 3.0 x16 slot <br> - 2x PCI-E 3.0 x8 slots |
|---|---|

## System BIOS

| BIOS Type | - 128Mb SPI Flash EEPROM with AMI BIOS |
|---|---|
| BIOS Features | - Plug and Play (PnP) <br> - APM 1.2 <br> - DMI 2.3 <br> - PCI 2.3 <br> - ACPI 1.0 / 2.0 / 3.0 / 4.0 <br> - USB Keyboard support <br> - Hardware BIOS Virus protection <br> - SMBIOS 2.7.1 <br> - UEFI 2.3.1 <br> - RTC (Real Time Clock) Wakeup |

## Management

| Software | - Intel® Node Manager <br> - IPMI 2.0 with KVM support <br> - SuperDoctor® 5 <br> - Watch Dog <br> - NMI <br> - SPM <br> - SUM |
|---|---|
| Power Configurations | - ACPI Power Management <br> - Keyboard Wakeup from Soft-Off <br> - CPU Fan auto-off in sleep mode <br> - Power-on mode for AC power recovery |

## PC Health Monitoring

| Voltage | - Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages. |
|---|---|
| FAN | - Total of 6 fan headers supporting up to 6 fans <br> - 6 fans with tachometer status monitoring <br> - Status monitor for speed control <br> - Status monitor for on/off control <br> - Low noise fan speed control <br> - Pulse Width Modulated (PWM) fan connectors |
| Temperature | - Monitoring for CPU and chassis environment <br> - CPU thermal trip support <br> - I²C temperature sensing logic <br> - Thermal Monitor 2 (TM2) support <br> - PECI |
| LED | - CPU / System Overheat LED <br> - Suspend static indicator LED <br> - UID/Remote UID |
| Other Features | - Chassis intrusion detection <br> - Chassis intrusion header <br> - Chipkill support <br> - RoHS, Halogen Free |

## Operating Environment

| Operating Temperature Range | - 0°C ~ 60°C (32°F ~ 140°F) |
|---|---|
| Non-Operating Temperature Range | - -20°C ~ 60°C (-4°F ~ 140°F) |
| Operating Relative Humidity Range | - 10% ~ 85% (non-condensing) |
| Non-Operating Relative Humidity Range | |

*Strona firmowa produktu:*

*https://www.superstorage.pl/supermicro-mbd-x10srm-tf-single-skt-intel-c612-chipset-sata-2x10gbe-ipmi-m2-p-2001.html*