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

Kod producenta: MBD-X10SRM-TF-B



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 Intel Xeon E5-2600v3 Intel Xeon E5-1600v4 Intel Xeon E5-1600v3
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	4
Max Memory Size	512 GB
Integrated GPU	Aspeed AST2400
# of PCIe x16 3.0	1
# of PCIe x4 3.0	2
# of USB Ports	2 x USB 3.0 (rear) 2 x USB 3.0 (header) 1 x USB 3.0 Type A 2 x USB 2.0 (rear) 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) 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 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Aspeed AST2400
TPM	1 x TPM 1.2 20-pin Header

iad Stats Fractor • Micro ATX Fractor • Micro	MBD-X10SR	M-TF • X10SRM-TF (Bulk Pack)		mized for X10SRM-TF) - <u>SC514-R400C</u>
 Indel Stats Instein + Micro ATX maions + 9.6" x 9.6", (24 dem x 24 dem) Intel® Xone ₱ processor E5-2000 vf // V2 E5-1000 vf // V3 family (up to 145W TDP + 0 - Single Socket R3 (LGA 2011) - Single Socket R3 (LGA 2011) - Correct Single Janket M3 (LGA 2011) - Single Socket R3 (LGA 2012) - Single Socket R3 (LGA 2012)	В	• ATOSKM-IF (BUIK PACK)		- <u>SC514-505</u>
 FREUD * MATO MAX SC113MEA2-605CB SC	Physical Stat	ts		- <u>SC515-505</u>
 Section 24.0°, 9.0°, C4.4 cm x 24.4 cm) Section 24.0°, 25.100 44 / v3 family (up to 145W TUP **) Single Socket R3 (GA 2011) Single Socket R3 (GA 2011) Single Socket R3 (GA 2011) Cache - Up to 22 Cores' (Up to 53MB Thermally support BIOS Version 2.0 or above is required thormally support Va 288-pin DDM4 DIMM slots Corrests single-bit errors (LR) and K1M-sects aboutbe-bit errors (using get Corrests single-bit errors (LR) and K1M-sects (LR) support (LR) and K1M-sects (LR			1U Chassis:	
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 (7.3) E5-1600 447 v5 family (up to 145W TDP **) - Single Socket R3 (CA 2011) - Single Socket R3 (CA 2011) - Cache - Up to 22 Cores? (Up to 55BHB * Motherboard supports this maximum TDP. Please verify our ystem can thermally support - A 2880 pin DDR4 DIMM slots ory - Up to 512GB ECC 3DS LRDIMM - 2400 (2133) R66(100MHz ECC 007) TJPD - Di to 25GG ECC LDIMM - 2400 (2133) R66(100MHz ECC 007) TJPD (226 BECC RDIMM - 2400 (2133) R66(100MHz ECC 007) TJPD (226 BECC RDIMM - 2400 (2133) R66(100MHz ECC 007) TJPD (226 BECC RDIMM - 2400 (2133) R66(100MHz ECC 007) - 1.2 V - Corrects single-hierrors - 0-betcd soluble-hi errors - 0-betcd solub-hi errors - 0-betcd solub-hi errors - 0-betcd solub-hi errors - 0-betcd solub-hi errors - 0-betcd solub-hi - 2-2 K0H 10 (2 0.0 4) (120 - 100 -	Processor			
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/ Gathe Cache BIOS version 2.0 or above is required whetherbaad supports this maximum TDP, Please verify your system can thermally support To support the new generation Intel ¹⁷ Xeon ² processor-based mover To support the term support To support the term support The CLE 2.0 x16 slot Prover To SUS LRDIMM: 126.8 BIOS Type The CLE 3.0 x16 slot Prover The CLE 3.0 x16 slot Prover The CLE 3.0 x16 slot Prover The CLE 3.0 x16 slot The CLE 3.		- Single Socket R3 (LGA 2011)	211 Chassie	- <u>SC823TQ-653LPB</u>
**Motherboard supports this maximum TDP. Please verify your system can thermally support - SC3113000 mMemory - To support the new generation intel ² Xeon ² processor-based motherboards, Revision M Chassi commended. Please talk to your sales representative for details. ory - 4x 288 pin DDRA DIM sluts - Up to 12360 ECC LRDIMM - Up to 12360 ECC LRDIMM - 24007 (2133) 866/600MHz ECC DIMMS Expansion Slots ory - 100 12360 ECC LRDIMM - 24007 (2133) 866/600MHz ECC DIMMS Expansion Slots ory - 122Mh SPI Flash EEPROM with Rangement Interface v.2.0 - Corrects single-bit errors - Detects double-bit	Core / Cache	- Up to 22 Cores [†] / Up to 55MB [†]		- <u>SC8331-653B</u>
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intermally support Important intermally support	Note		Chassis:	- To support the new generation
im Memory im Mem		thermally support	Chassis	Intel® Xeon® processor-based motherboards, <u>Revision M</u> chassis is
 - Up to 5120 B ECC 3DS LEDIMM - Up to 2860B B CC RDIMM - Up to 2860B B CC RDIMM - Up to 2860B B CC RDIMM - DDR4 SDRAM 72-bit, 288-pin (RDIMM - Balance 1000000000000000000000000000000000000	System Mem			sales representative for details.
 Up to 128G ECC RDIM - 2400/12331/860/1600/H = 2CL = 20 x16 slot DDR SDRAM 72-bit, 286-pin (RDIM) 3DS LADIM 128CB LRDIM 52GB + 128/B LRDIM 52GB + 128/B LRDIM 52GB + 128/B LRDIM 52GB + 128/B System BIOS Corrects single-bit errors (using ECC memory) Corrects single-bit errors (using ECC memory) Corrects single-bit errors (using ECC memory) Card Devices A - SATA3 (6Gbps) via C612 control - SMBIOS 2.7.1 System BIOS Hord C612 chipset SMEIO S.7.1 Support for Intelligent Platomer System BIOS Hord Sork 3.7.1 Support for Intelligent Platomer System BIOS Hord Sork 3.7.1 Support for Intelligent Platomer Support 1000ASE 7.1, 100ASE 7.1, 00ASE 7.1, 00	Memory	- Up to 512GB ECC 3DS LRDIMM		
 -2409/213/166/1600MHz ECC BERAM72-bit 286-pin (DIMM) -3DS LEDIMM: 1286B, 16GB, 8GB, 4GB -3DS LEDIMM: 128CB -3DE LEDIMM: 128CB -3DE LEDIMM: 128CB -3DE LEDIMM: 128CB -22 Support 107 Intelligent Platform -3AFEED AST2400 BMC -3SFEED AST2400 BMC -3SFEED AST2400 BMC -3SFEED AST2400 BMC -3SFEED AST2400 BMC -2x RI45 100GBase-T Ethernet LAN ports -2x RI45 10GBase-T Ethernet LAN ports -2x COM ports (1 rear, 1 header) -1TPM Header -1T	Capacity		P	-1-
ory Type DIMMS 224-pin gold-plated DIMMS -22 PCI-E 3.0 x8 slots - 23D RDDMM: 128CB - 22 MMS SPI Flash EEPROM with MI BIOS - 128Mb SPI Flash EEPROM with MI BIOS - 128Mb SPI Flash EEPROM with MI BIOS ory - 1.2 V - Corrects single-bit errors - Detects double-bit errors (using etcion - Detects double-bit errors (using - RTAD 0, 1, 10 support oard Devices - Intel C612 chipset - StatX3 (6Cips) via C612 controller - Support for Intelligent Platform Management Interface v.2.0 - 12N AM KWA-were-LAN support - SEPED AST2400 BMC - StatS 550 - 100 RASE-T, PLS output - StatS 3 ports (2 rear + 2 via - 6 (USB 2.0 ports (1 rear, 1 header) - 1 x VGA port - 1 x VGA port - 10x SATA3 (6Cibps) ports - 2x RV45 10GBase-T Ethernet LAN - fot USB 2.0 ports (1 rear, 1 header) - 1 x VGA port - Stats monitor for CPU Cores, +3.3 - 1 x VGA port - 1 x VGA port - Status monitor for on/off controller - 1 TPM Header ompatibility - 2 x SupportS (1 rear, 1 header) - 1 x VGA port - Status monitor for on/off controller - 1 tPM Header ompatibility - 2 x COM ports (1 rear, 1 header) - 1 x RV45 Dedicated IPM LAN port - Status monitor for on/off controller - Chipski langont - 2 wore - 6 or C (42°F - 140°F) Range - SuspectOV (S2°F - 140°F) Range - 0°C - 60°C (42°F - 140°F) Range Operating Relative Humidity - 0°C - 6		- 2400 [†] / 2133/1866/1600MHz ECC	Expansion Sl	
 M Sizes - LRDIMM: 64GB, 32GB RDIMM: 32GB, 16GB, 8GB, 4GB Ory - 1.2 V Corrects single-bit errors Detects double-bit errors (using ECC nemory) aard Devices Set - Intel CG12 chipset Support for Intelligent Platform - Support for Intelligent Platform - Support for Intelligent Platform - ASPEED AST2400 BMC - Out LAN with hull-lel % X50 - TOM ports IO GR3E-T, 100ASE-TX, and 1000BASE-T, 100ASE-TX, and 100BASE-T, 100ASE-TX, and 10CBase-T Ethernet LAN ports - X RV5 10GBase-T Ethernet Cantroller - X RV5 10GBase-T Ethernet Cantroller - Cure X, Status monitor for CPU cores, 4:3. 3 - Cure X, Status monitor for core CPU and chassi environment - Cure X, Status monitor for core CPU and chassi environment - Cure X, Status monitor for core CPU and chassi environment - Cure X, Status monitor for core (100-CPU - 100-FR), and 100-CPU - CPU - 100-FR), and 100-CPU - CPU - 100-FR), and	Memory Typ	e / LRDIMM) / 284-pin gold-plated	PCI-Express	
 RDIMM: 32GB, 16GB, 8GB, 4GB BIOS Type Intel® STP Paint ELFROM With MILLINDS Corrects single-bit errors (using ECC memory) Corrects and Low Corrects SatTA3 (GCbps) via C612 controller SATA3 (GCbps) via C612 controller Support for Intelligent Platform Management Interface v.2.0 TPU 2.0 with virtual media over LAN support Support for Intelligent Platform Management Interface v.2.0 TPU 2.0 with Nutel® X550 Software Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, 100BASE-TX, and 1000BASE-T, 100BASE-TX, and 1000BASE-T, 100BASE-TX, and 1000BASE-T, 2.8 RJ45 10GBase-T Ethernet LAN ports Supports 10GBASE-T, 100BASE-TX, and 1000BASE-TX, and 100BASE-TX, and 1000BASE-TX,	DIMM Star		System BIOS	
ory - 1.2 V ge - 1.2 V Function 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	DIMM Sizes		BIOS Type	- 128Mb SPI Flash EEPROM with AMI BIOS
ge - Corrects single-bit errors - APM 1.2 - Detects double-bit errors (using ECC memory) - NM1.2.3 oard Devices - SATA3 (6Gbps) via C612 controller - RATD 0, 1, 10 support - SATA3 (6Gbps) via C612 controller - SPEED AST2400 BMC - Support for Intelligent Platform Management Interface v.2.0 - TAN and KVM-over-LAN support - Support for Intelligent Platform Management Interface v.2.0 - DM1 2.0 with Virtual media over LAN and KVM-over-LAN support - Support for Intelligent Platform Management Interface v.2.0 - Not 100GBASE T, R145 output - Intel® Node Manager - Status monitor for CPU Cores, -3.3 - Still - 10x SATA3 (6Gbps) ports - Status monitor for CPU Cores, -3.3 - St USB 3.0 ports (2 rear + 2 via header) - Monitors for CPU Cores, -3.3 - St USB 2.0 ports (1 rear, 1 header) - Total of 6 fan headers support - 1 TPM Header - Status monitor for speed control ports is - Status monitor for speed control ports is - Status monitor for speed control port (2 Uthernal trip support - FC temperature sensing logic reference the OS Compatibility Chart for status monitor for speed control - Device Witch Modulad (PWM) fan connectors - Monitoring for CPU and chassi intrusion header Features - Chipkill support - FC temperature - Chassis intrusion header Features - Chipkill support - FC temperature - Chi CPU and thea	Memory			- Plug and Play (PnP)
 - Detects double-bit errors (using ECC memory) aard Devices - Intel C612 chipset - Support for Intelligent Platform Management Interface v.2.0 - IPM12.0 with virtual media over LAN and KVM-over-LAN support - Support for Intelligent Platform Management Interface v.2.0 - IPM12.0 with virtual media over LAN support - ASPEED AST2400 BMC - Outo DOBASET, T, 100BASET, 100BASET, 100BASET, 145 output - Status monitor for Soft-Y - Outo SATA3 (6Ghps) ports - Status for the additional over Configurations - Status monitor for CPU Cores, -4.3.3 - Oti X SATA3 (6Ghps) ports - Status monitor for soft OPU cores, -4.3.3 - NTC (12, 3) - Oti X SATA3 (6Ghps) ports - Status monitor for conditioning - NTC (12, 3) - Status monitor for support - Status monitor for soft or conditioning - NTC (12, 3) - NTC (12, 3) - Oti X SATA3 (6Ghps) ports - Status monitor for support - ACPI Power Management (AN ports) - Oti X SATA3 (6Ghps) ports - Status monitor for cPU Cores, -4.3.3 - Oti X GA port - Status monitor for sole of control ports with built-in power - 1 TPM Header - 20°C - 60°C (4°F - 140°F) - Range - Oor C - 60°C (4°F - 140°F) - Range - Ono- Operating - Non-Operating 	Voltage Ermon			- APM 1.2
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oard Devices - Intel C612 chipset set - Intel C612 chipset SATA3 (6Cbps) via C612 controller - RTC (Real Time Clock) Wakeup - NAID 0, 1, 10 support - RTC (Real Time Clock) Wakeup - Support for Intelligent Platform - RTC (Real Time Clock) Wakeup - ASPEED AST2400 BMC - Intel® Node Manager - Dual LAN with Intel® X550 Software - Numit Comports 100Base-T, RJ45 output - Supports 10CBASE-T, RJ45 output header + 1 Type A) - Ox SATA3 (6Cbps) ports - 5x USB 3.0 ports (2 rear + 2 via header) - Nonitors for CPU Cores, +3.33 - 6 x USB 2.0 ports (1 rear, 1 header) - Status monitor for speed control rDOM - 1x KQA port - Status monitor for on/off control 10 or 1x VGA port - 1x VGA port - Status monitor for speed control 10 port / - 2x COM ports (1 rear, 1 header) - Status monitor for speed control - Due woise fan speed control 10 port / - 1x PM Header - CPU / System Overheat LED - Device monde for AC pover is - Status monitor for on/off control - Status monitor for on/off control is - It WGA port - Status monitor for on/off control is - Device monde fan Acpover <td< td=""><td></td><td>ECC memory)</td><td></td><td></td></td<>		ECC memory)		
set - intel Coll 2 chipset - SATA3 (6Gbps) via C612 controller - NAID 0, 1, 10 support - Support for Intelligent Platform Management Interface v 2.0 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support - ASPEED AST2400 BMC - Dual LAN with Intel® X550 ork 10GBase-T Ethernet Controller - Supports 10GBASE-T, RJ45 output hics - ASPEED AST2400 BMC - LY Output - 10x SATA3 (6Gbps) ports - X RJ45 10GBase-T Ethernet LAN ports - 1x RJ45 Dedicated IPMI LAN port - 5x USB 3.0 ports (2 rear + 2 via header + 1 Type A) - 6x USB 2.0 ports (2 rear + 4 via header) - 1 x FQ45 ports (1 rear, 1 header) er - 2x SuperDOM (Disk on Module) ports with built-in power - 1 x FQ4 port i 1 rear, 1 header) er - 2x SuperDOM (Disk on Module) ports with built-in power - 1 TPM Header - 2 CUU / System Overheat LED LED - UUD/Remote UID - Chassis intrusion detection - CPU - Sauss monitor dicator LED - UUD/Remote UID - Chassis intrusion detection Other - Chassis intrusion detection Other - Chassis intrusion detection - Thermal King support - CPU - Sussend static indicator LED - UUD/Remote UID - Chassis intrusion detection Other - Config Environment Operating - Monitoring - 20°C ~ 60°C (4°F ~ 140°F) - Range Operating - Monitory - 10% ~ 85% (non-condensing) - Range Operating - Non-Operating	On-Board De	vvices		- Hardware BIOS Virus protection
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Management Interface v 2.0 . Intel® Node Manager . IPMI 2.0 with Withus upport . Software . ASPEED AST2400 BMC . Software . Dual LAN with Intel® X550 . Watch Dog order 100GBase-T Ethernet Controller . Supports 10GBase-T, RJ45 output . Software . ASPEED AST2400 BMC . SUB 3.2 Dover Management . Voutput . 10x SATA3 (6Gbps) ports . 2x RJ45 10GBase-T Ethernet LAN ports . 2x RJ45 10GBase-T Ethernet LAN ports . 1x RJ45 Dedicated IPMI LAN port . Software . 6 Ku SB 2.0 ports (2 rear + 2 via header) . Monitoring . 1 x VGA port . Word Support . 1 Xr GA port . Word Support . 1 TPM Header . Status monitor for on/off control of a fan headers support . 1 TPM Header . Status monitor for on/off control - Status monitor for on/off control - Low noise fan speed control - Low noise fan speed control - Status monitor for or on/off control - CPU thermal trip support . TPM Header . Ownitoring for CPU and chassi intrusion detection . Bort / Letter . CPU status monitor for or on/off control - Status monitor for or on/off contror - Status monitor for or on/off contror -	SATA			- RTC (Real Time Clock) Wakeup
 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support - ASPEED AST2400 BMC Dual LAN with Intel® X550 Software Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, 100BASE-TX, and 100BASE-T, 100BASE-TX, and 100BASE-T, 100BASE-TX, and 100BASE-T, 100BASE-TX, and 100BASE-T, 100BASE-TX, brader - 1x RJ45 Dedicated IPMI LAN ports - 5x USB 3.0 ports (2 rear + 2 via header + 1 Type A) - 6x USB 2.0 ports (2 rear + 4 via header) - 1x VGA port - 2x COM ports (1 rear, 1 header) - 1 TPM Header - 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0			Management	
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- Dual LAN with Intel® X550 for the subgrots 10 CBASE-T, 100 BASE-T, 100 BASE-T, 100 BASE-T, 200 Far at 100 BASE-T, 200 Far at 200				- <u>SuperDoctor® 5</u>
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and 1000BASE-T, RJ45 output hics ASPEED AST2400 BMC ACPI Power Management Keyboard Wakeup from Soft-4 Configurations ACPI Power Management Keyboard Wakeup from Soft-4 Configurations CPU Fan auto-off in sleep mo Power 2 x RJ45 10GBase-T Ethernet LAN ports A 2 x RJ45 10GBase-T Ethernet LAN ports A 2 x RJ45 10GBase-T Ethernet LAN ports A 5 uSB 3.0 ports (2 rear + 2 via header + 1 Type A) - 6x USB 2.0 ports (2 rear + 4 via header) 2 x SuperDOM (Disk on Module) ports with built-in power - 1 TPM Header Ace Power - 2 x SuperDOM (Disk on Module) ports with built-in power - 1 TPM Header Ace Power - 2 CPU 1 Fan auto-off in sleep mo - 2 x SuperDOM (Disk on Module) ports with built-in power - 1 TPM Header Ace Power - 2 CPU 1 Formation for speed control - Pulse Width Modulated (PWM) fan connectors - Monitoring for CPU and chassi environment - CPU thermal trip support - CPU / System Overheat LED - Suspend static indicator LED - UD/Remote UID - Chassis intrusion header Features - Chipkill support - RoHS, Halogen Free Operating Temperature - 20°C ~ 60°C (32°F ~ 140°F) Range Non-Operating Relative Humidity - 10% ~ 85% (non-condensing) Range Non-Operating	Network Controllers			- <u>SPM</u>
 ASTELD ASTERD ASTERD ON DATE Astronom Date Astronom Date Configurations CPU Fan auto-off in sleep mo - CPU Fan auto-off in sleep mo - CPU Fan auto-off in sleep mo - Power CPU Fan auto-off in sleep mo - CPU Fan auto-off in sleep mo - CPU Fan auto-off in sleep mo - Power on mode for AC power Power - Configurations CPU Fan auto-off in sleep mo - Power on mode for AC power Power - Configurations CPU Fan auto-off in sleep mo - Power on mode for AC power Power - Configurations CPU Fan auto-off in sleep mo - Power on mode for AC power Power - Configurations CPU Standby, VBAT, Fan- - Status monitor for CPU Cores, +3.3 Voltage Monitors for CPU Cores, +3.3 Voltage - Total of 6 fan headers supporti up to 6 fans - 6 fans with tachometer status monitoring FAN Status monitor for on/off contr - Status monitor for on/off contr - Low noise fan speed control - Puise Width Modulated (PWM) fan connectors - Monitoring for CPU and chassi environment - CPU / System Overheat LED LED Suppend static indicator LED - Chassis intrusion header - Chassis intrusion detection - Chass	and	and 1000BASE-T, RJ45 output		
 t/Output - 10x SATA3 (6Gbps) ports - 2x RJ45 10GBase-T Ethernet LAN ports - 1x RJ45 Dedicated IPMI LAN port - 5x USB 3.0 ports (2 rear + 2 via header + 1 Type A) - 6x USB 2.0 ports (2 rear + 4 via header) - 1x VGA port - 1x VGA port - 2x COM ports (1 rear, 1 header) - 2x SinperDOM (Disk on Module) ports with built-in power - 1 TPM Header - 2 SinperDOM (Disk on Module) ports with built-in power - 1 TPM Header - 1 TPM Header - 1 TPM Header - 1 TPM Header - 2 C CU / Lemmal trip support - FC temperature sensing logic - Thermal Monitor 2 (TM2) support - CHU / System Overheat LED LED - Suspend static indicator LED - UID/Remote UID - Chassis intrusion header - CHU / System Overheat LED - CHUS Hill support - RoHS, Halogen Free - OPerating - OPerating - OPC - 60°C (32°F - 140°F) - Range - ONO-Operating - CHU / System (- 4°F - 140°F) - Range - Non-Operating - Mange - Non-Operating - CHU / Static molectors 	Graphics	- ASPEED AST2400 BMC	Power	- Keyboard Wakeup from Soft-Off
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