X11SSH-TF



Key Features

- 1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
- 2. Intel® C236 chipset
- 3. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
- 4. Expansion slots:

1 PCI-E 3.0 x8, 1 PCI-E 3.0 x2 (in x4)

5. M.2 NGFF connector

M.2 Interface: SATA and PCI-E 3.0 x4

Form Factor: 2260 Key: M-Key

- 6. 8 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10
- 7. Dual 10GBase-T LAN with Intel® X550
- 8. I/O: 1 VGA, 2 COM, TPM header
- 9. 2 SuperDOM with built-in power
- 10. 5 USB 3.0 (2 rear, 2 via header(s), 1 Type A), 6 USB 2.0 (2 rear, 4 via header(s))

Specifications

| Product SKUs | | Expansion Slots | |
|--------------------------|--|-------------------------|--|
| MBD-X11SSH- TF | X11SSH-TF | PCI-E | ■ 1 PCI-E 3.0 x8, ■ 1 PCI-E 3.0 x2 (in x4 slot) |
| Physical Stats | | M.2 | M.2 Interface: SATA; PCI-E 3.0 x4 Form Factor: 2260 Key: M-Key |
| Form Factor | ■ Micro-ATX | | <u> </u> |
| Dimension | 9.6" x 9.6" (24.38cm x 24.38cm) | System BIOS | |
| Processor | | BIOS Type | ■ 128MB SPI Flash EEPROM with AMI BIOS |
| CPU | Intel® Celeron®, Intel® Pentium®, Intel® 7th/6th Generation Core i3 series, Intel® Xeon® processor E3-1200 v6/v5 Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 80W TDP | BIOS Features | APM 1.2 DMI 2.3 PCI 2.3 Plug and Play (PnP) ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support Hardware BIOS Virus protection UEFI 2.3.1 |
| Note | ■ BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ i3 Processors and Intel® Xeon® Processor E3-1200 v6 series | Management | ■ SMBIOS 2.7.1 |
| System Memory | | Software | SuperDoctor® 5, NMI, <u>SUM</u> , <u>SPM</u> , Intel® Node Manager, <u>SSM</u> , <u>IPMI2.0</u> , Watchdog |
| Memory Capacity | 4 DIMM slots64GB ECC UDIMM, DDR4- 2400MHz | Power Configurations | Power-on mode for AC power recovery, ACPI Power Management |
| Memory Type | ■ 2400/2133/1866/1600MHz SDRAM 72-bit, 288-pin gold-plated DIMMs | PC Health Monito | ring |
| DIMM Sizes | ■ 4GB, 8GB, 16GB | Voltage | VBAT, System level control, Supports system management |
| Memory Voltage | ■ 1.2V | | utility, Monitors CPU voltages, Chassis intrusion header, +5V |
| Error Detection | ■ Corrects single-bit errors | LED | standby, +5V, +3.3V, +12V |
| | | LED | UID/Remote UIDCPU / System Overheat LED |
| On-Board Devices Chipset | ■ Intel® C236 | Temperature | Monitoring for CPU and chassis environment |
| SATA | ■ Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 | | CPU thermal trip support Thermal Monitor 2 (TM2) support PECI |
| IPMI | ■ ASPEED AST2400 BMC | FAN | 6x 4-pin fan headers (up to 6 fans) |
| Graphics | ■ ASPEED AST2400 BMC | | Thermal control tachometer fan |
| Network Controllers | ■ Dual LAN with Intel® X550 10GBase-T Ethernet Controller | | connectorsFan speed controlOverheat LED indication |
| Input / Output USB | 3 USB 3 port(s) (1 Type A; 2 via header) 6 USB 2.0 port(s) (4 via header; 2 rear) | Other Features | WOL Node Manager Support CPU thermal trip support for processor protection Control of power-on for recovery from AC power loss |
| | 2 UŚB 3.0 port(s) (2 rear) | Operation Family | 2 102 Q 105 É |
| Video Output | ■ 1 VGA port(s) | Operating Enviror | nment |
| Serial Port | 2 COM Port(s) (1 header; 1 rear) | | |

■ 1 TPM Header

| Operating Temperature Range | ■ 0°C - 50°C (32°F - 122°F) |
|--|--------------------------------|
| Non-Operating Temperature Range | ■ -40°C - 70°C (-40°F - 158°F) |
| Operating Relative Humidity Range | 8% - 90% (non-condensing) |
| Non Operating Relative Humidity Range | ■ 5% - 95% (non-condensing) |

Parts List

| Parts List (Bulk Package) | arts List (Bulk Package) | | |
|---------------------------|-----------------------------------|-----|--|
| Name | Part Number | Qty | Description |
| Motherboard | MBD-X11SSH-TF | 1 | X11SSH-TF Motherboard |
| I/O Cables | CBL-0044L • @Store | 2 | 57.5CM SATA FLAT S-S PBF |
| I/O Shield | MCP-260-00042-0N • <i>€</i> Store | | STD I/O Shield for X11SSH-TF with EMI Gasket |

| Parts List (Retail Packa | ts List (Retail Package) | | | |
|--------------------------|-----------------------------------|-----|--|--|
| Name | Part Number | Qty | Description | |
| Motherboard | MBD-X11SSH-TF | 1 | X11SSH-TF Motherboard | |
| I/O Cables | CBL-0044L • €Store | 6 | 57.5CM SATA FLAT S-S PBF | |
| I/O Shield | MCP-260-00042-0N • <i>e</i> Store | 1 | STD I/O Shield for X11SSH-TF with EMI Gasket | |
| QRG | MNL-1783-QRG | 1 | Motherboard Quick Reference Guide | |

Chassis (Optimized for X11SSH-TF)

| Embedded Compact | 1U | 2U | 3U | Mid/Mini-Tower | 4U/Tower |
|---------------------|---|---|--|---|---|
| | SC813MTQ- 350CB SC113MFAC2- R606CB SC813MFTQ- R400CB SC813MFTQC- 350CB SC813MFTQC- 505CB SC512F-350B SC512F-350B SC113MFAC2- 341CB | ■ SC213LT- 600LPB ■ SC823TQ- 653LPB SC825TQ- R720LPB Heatsink:SNK- P0046A4 | • <u>SC833T-653B</u> Heatsink:SNK- P0046A4 | SC731i-300B SC731i-403B SC732D3- 1200B SC732I-500B SC731D-300B SC733TQ-668B Heatsink:SNK- P0046A4 | SC842i-500B SC743AC-1200B-SQ SC745BAC-R1K28B2 Heatsink:SNK-P0046A4 |

 Most optimized Chassis for SuperServer Configuration Blue color = Compatible
 Green color = Global SKU & Compatible
 Red dot & green color = Optimized + Global SKU

Server (Optimized for X11SSH-TF)

| Sciver (Optimized for X1155H H) |
|---------------------------------|
| Server Name |
| SYS-5019S-MT |

https://www.supermicro.com/en/products/motherboard/x11ssh-tf