

# Supermicro MBD-X11SSM-F, Single SKT, Intel C236 Chipset, SATA, 2xGbE, IPMI Bulk

Kod producenta: MBD-X11SSM-F-B



|                     |                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| Category            | Server                                                                                                         |
| Form Factor         | Micro-ATX                                                                                                      |
| Dimensions          | 9.6" x 9.6"                                                                                                    |
| CPU Socket          | LGA 1151 (Socket H4)                                                                                           |
| # of CPU sockets    | 1                                                                                                              |
| Supported CPU's     | Intel Xeon E3-1200v5                                                                                           |
| Chipset             | Intel C236 Skylake                                                                                             |
| Memory Type         | DDR4 ECC UDIMM                                                                                                 |
| Memory Speed        | 2133 MHz<br>1866 MHz<br>1600 MHz                                                                               |
| # of DIMM's         | 4                                                                                                              |
| Max Memory Size     | 64 GB                                                                                                          |
| Integrated GPU      | Aspeed AST2400                                                                                                 |
| # of PCIe x4 3.0    | 2                                                                                                              |
| # 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     | 8                                                                                                              |
| # of SATA DOM power | 2                                                                                                              |
| Storage Controllers | 8 x AHCI iSATA 6Gb/s                                                                                           |
| Integrated RAID     | 0,1,5,10                                                                                                       |
| # of Serial Ports   | 1 x Fast UART 16550 (rear)<br>1 x Fast UART 16550 (header)                                                     |
| # of 1GbE Ports     | 2 x RJ45                                                                                                       |
| Network Controllers | Intel i210 Dual Port Gigabit Ethernet                                                                          |
| Integrated BMC      | IPMI Dedicated RJ45                                                                                            |
| BMC chip            | Aspeed AST2400                                                                                                 |
| TPM                 | 1 x TPM 1.2 20-pin Header                                                                                      |
| Uwagi               | PCI-Express Slots Configuration:<br>1x PCI-E 3.0 x8 (in x16) slot<br>2x PCI-E 3.0 x4 (in x8) slot              |

|                                              |                                                                                                                                                                                                                                                              |                                       |                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product SKUs                                 |                                                                                                                                                                                                                                                              | Expansion Slots                       |                                                                                                                                                                                                                                                                                                                                       |
| MBD-X11SSM-F • X11SSM-F (Bulk Pack)          |                                                                                                                                                                                                                                                              | PCI-E                                 | <ul style="list-style-type: none"><li>• 1 PCI-E 3.0 x8 (in x16 slot)</li><li>• 1 PCI-E 3.0 x8</li><li>• 2 PCI-E 3.0 x4 (in x8 slot)</li></ul>                                                                                                                                                                                         |
| Physical Stats                               |                                                                                                                                                                                                                                                              | System BIOS                           |                                                                                                                                                                                                                                                                                                                                       |
| Form Factor • Micro-ATX                      |                                                                                                                                                                                                                                                              | BIOS Type                             | <ul style="list-style-type: none"><li>• 128Mb SPI Flash EEPROM with AMI BIOS</li><li>• Plug and Play (PnP)</li><li>• APM 1.2</li><li>• DMI 2.3</li><li>• PCI 2.3</li></ul>                                                                                                                                                            |
| Dimensions • 9.6" x 9.6" (24.38cm x 24.38cm) |                                                                                                                                                                                                                                                              |                                       |                                                                                                                                                                                                                                                                                                                                       |
| Processor/Cache                              |                                                                                                                                                                                                                                                              | BIOS Features                         | <ul style="list-style-type: none"><li>• ACPI 1.0 / 2.0 / 3.0 / 4.0</li><li>• USB Keyboard support</li><li>• Hardware BIOS Virus protection</li><li>• SMBIOS 2.7.1</li><li>• UEFI 2.3.1</li><li>• RTC (Real Time Clock) Wakeup</li></ul>                                                                                               |
| CPU                                          | <ul style="list-style-type: none"><li>• Intel® 6th Generation Core™ i3 series</li><li>• Intel® Celeron®</li><li>• Intel® Pentium®</li><li>• Intel® Xeon® processor E3-1200 v5 series</li><li>• Socket H4 (LGA 1151) supported; CPU TDP support 80W</li></ul> |                                       |                                                                                                                                                                                                                                                                                                                                       |
| System Memory                                |                                                                                                                                                                                                                                                              | Management                            |                                                                                                                                                                                                                                                                                                                                       |
| Memory Capacity                              | <ul style="list-style-type: none"><li>• 64GB Unbuffered ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots</li><li>• 2133/1866/1600MHz ECC DDR4</li></ul>                                                                                                              | Software                              | <ul style="list-style-type: none"><li>• Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog</li></ul>                                                                                                                                                                                                          |
| Memory Type                                  | SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs                                                                                                                                                                                                              | Power Configurations                  | <ul style="list-style-type: none"><li>• ACPI Power Management</li><li>• Power-on mode for AC power recovery</li></ul>                                                                                                                                                                                                                 |
| DIMM Sizes                                   | • 4GB, 8GB, 16GB                                                                                                                                                                                                                                             | PC Health Monitoring                  |                                                                                                                                                                                                                                                                                                                                       |
| Memory Voltage                               | • 1.2 V                                                                                                                                                                                                                                                      | Voltage                               | <ul style="list-style-type: none"><li>• +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT</li><li>• 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors</li></ul> |
| Error Detection                              | <ul style="list-style-type: none"><li>• Corrects single-bit errors</li><li>• Detects double-bit errors (using ECC memory)</li></ul>                                                                                                                          |                                       |                                                                                                                                                                                                                                                                                                                                       |
| On-Board Devices                             |                                                                                                                                                                                                                                                              | FAN                                   | <ul style="list-style-type: none"><li>• Monitoring for CPU and chassis environment</li></ul>                                                                                                                                                                                                                                          |
| Chipset                                      | • Intel® C236                                                                                                                                                                                                                                                |                                       |                                                                                                                                                                                                                                                                                                                                       |
| SATA                                         | • Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10                                                                                                                                                                                           | Temperature                           | <ul style="list-style-type: none"><li>• CPU thermal trip support</li><li>• Thermal Monitor 2 (TM2) support</li><li>• PECI</li></ul>                                                                                                                                                                                                   |
| Network Controllers                          | • Dual LAN with Intel® Ethernet Controller I210-AT                                                                                                                                                                                                           |                                       |                                                                                                                                                                                                                                                                                                                                       |
| Graphics                                     | • Aspeed AST2400 BMC                                                                                                                                                                                                                                         | LED                                   | <ul style="list-style-type: none"><li>• CPU / System Overheat LED</li><li>• UID/Remote UID</li></ul>                                                                                                                                                                                                                                  |
| Input / Output                               |                                                                                                                                                                                                                                                              | Other Features                        | <ul style="list-style-type: none"><li>• Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, WOL</li></ul>                                                                                                                                                   |
| USB                                          | <ul style="list-style-type: none"><li>• 6 USB 2.0 ports (2 rear, 4 via header)</li><li>• 5 USB 3.0 ports (2 rear, 2 via header, 1 Type A)</li></ul>                                                                                                          |                                       |                                                                                                                                                                                                                                                                                                                                       |
| Video Output                                 | <ul style="list-style-type: none"><li>• 1 VGA</li><li>• 1 Aspeed AST2400 BMC</li></ul>                                                                                                                                                                       | Operating Environment                 |                                                                                                                                                                                                                                                                                                                                       |
| Serial Port / Header                         | • 2 COM Ports (1 rear, 1 header)                                                                                                                                                                                                                             | Operating Temperature Range           | <ul style="list-style-type: none"><li>• 0°C ~ 50°C (32°F ~ 122°F)</li></ul>                                                                                                                                                                                                                                                           |
| TPM                                          | • Header                                                                                                                                                                                                                                                     | Non-Operating Temperature Range       | <ul style="list-style-type: none"><li>• -40°C - 70°C (-40°F - 158°F)</li></ul>                                                                                                                                                                                                                                                        |
|                                              |                                                                                                                                                                                                                                                              | Operating Relative Humidity Range     | <ul style="list-style-type: none"><li>• 8% - 90% (non-condensing)</li></ul>                                                                                                                                                                                                                                                           |
|                                              |                                                                                                                                                                                                                                                              | Non-Operating Relative Humidity Range |                                                                                                                                                                                                                                                                                                                                       |

