

# Supermicro MBD-X11SPH-nCTF, Single SKT Intel C622 Chipset SATA LSI 3008 SAS3 2x10GbE IPMI M.2

Kod producenta: MBD-X11SPH-NCTF-O



Category	Server
Form Factor	ATX
Dimensions	12" x 9.6"
CPU Socket	LGA 3647 (Socket P)
# of CPU sockets	1
Supported CPU's	Intel Xeon Scalable Processors
Chipset	C622
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2666 MHz 2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	8
Max Memory Size	1024 GB
Integrated GPU	Aspeed AST2500
# of PCIe x16 3.0	1
# of PCIe x4 3.0	1
# of PCIe x8 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) 6 x USB 2.0 (header)
# of SATA Ports	10
# of SAS Ports	8
Storage Controllers	10 x AHCI iSATA 6Gb/s LSI 3008 12Gb/s
Integrated RAID	0,1,5,10
Hardware RAID	0,1,10
# of Serial Ports	1 x Fast UART 16550 (rear) 1 x Fast UART 16550 (header)
# of 10GbE Ports	2 x RJ45
Network Controllers	Intel x722 Port 10 Gigabit Base-T Intel x557 Port 10 Gigabit Base-T
Integrated BMC	IPMI Dedicated RJ45
BMC chip	Aspeed AST2500
TPM	1 x TPM 2.0 20-pin Header
Uwagi	PCI-Express Slots Configuration: 1xPCI-E 3.0 x16 (in x16 or x8) slot 1x PCI-E 3.0 x8 (in x0 or x8) slot 1x PCI-E 3.0 x8 slot 1x PCI-E 3.0 x4 (in x8) slot M.2 Interface: 1x PCI-E 3.0 x4 & SATA

## Product SKUs



MBD-X11SPH-nCTF • X11SPH-nCTF

## Physical Stats



Form Factor • ATX  
Dimensions • 12" x 9.6" (30.48cm x 24.38cm)

## Processor/Cache



CPU • Intel® Xeon® Processor Scalable Family.  
• Single Socket P (LGA 3647) supported, CPU TDP support 205W  
Cores / Cache • Up to 28 cores

## System Memory



Memory Capacity • 8x 288-pin DDR4 DIMM slots  
• Up to 1TB ECC 3DS LRDIMM  
• Up to 512GB ECC LRDIMM  
• Up to 256GB ECC RDIMM  
• 2666/2400/2133/1866/1600MHz ECC  
Memory Type DDR4 SDRAM 72-bit 288-pin RDIMM/LRDIMM  
DIMM Sizes • RDIMM: 4GB, 8GB, 16GB, 32GB  
• LRDIMM: 32GB, 64GB  
• 3DS LRDIMM: 64GB, 128GB  
Memory Voltage • 1.2V  
Error Detection • Corrects single-bit errors

## On-Board Devices



Chipset • Intel® C622  
• Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10  
SATA • Broadcom® 3008 SW controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10  
IPMI • ASPEED AST2500  
Network Controllers • Dual LAN with 10GBase-T with Intel® X722 + X557  
Graphics • Aspeed AST2500 BMC

## Input / Output



SATA • 10 SATA3 (6Gbps) port  
LAN • 2 RJ45 10GBase-T ports  
• 8 USB 2.0 ports (2 rear + 6 via header(s)),  
USB • 5 USB 3.0 ports (2 rear + 2 via header(s) + 1 Type A)  
Video Output • 1 VGA port(s)  
Serial Port / Header • 2 COM Ports (1 rear, 1 header(s))  
TPM • TPM Header

## Expansion Slots



PCI-E • 1 PCI-E 3.0 x16 (x16 or x8 ),  
• 1 PCI-E 3.0 x8 (x0 or x8 ),  
• 1 PCI-E 3.0 x8,  
• 1 PCI-E 3.0 x4 (in x8 slot)  
M.2 • Interface: PCIe 3.0 x4 and SATA  
• Form Factor: 2280

## System BIOS



BIOS Type • AMI UEFI  
• ACPI 6.0  
BIOS Features • RTC (Real Time Clock) Wakeup  
• SMBIOS 3.0 or later

## Management



Software • Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog  
Power Configurations • ACPI Power Management  
• Power-on mode for AC power recovery

## PC Health Monitoring



Voltage • +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT  
FAN • 8x 4-pin fan headers (up to 8 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control  
Temperature • CPU thermal trip support  
• PECI  
LED • CPU / System Overheat LED  
• UID/Remote UID  
• Suspend static indicator LED  
Other Features • ACPI power management, Control of power-on for recovery from AC power loss, RoHS, UID, WOL

## Operating Environment



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

Strona firmowa produktu:

<https://www.superstorage.pl/supermicro-mbd-x11sph-nctf-single-skt-intel-c622-chipset-sata-lsi-3008-sas-3-2x10gbe-ipmi-m2-p-3246.html>