



Key Features

- 5th/4th Gen Intel® Xeon® Scalable processors, Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
- Intel C741® Chipset
- Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s (1DPC) in 8 DIMM slots
- 1 PCIe 5.0 x8 (in x16)
- 1 PCIe 5.0 x32
- M.2 Interface:** 1 PCIe 3.0 x2
- M.2 Form Factor:** 2280, 22110
- M.2 Key:** M-Key
- 10 NVMe ports PCIe 5.0 x8 via 5 M.2 connectors
- Dual LAN with 10GBase-T with Intel® X550
- 2 SuperDOM with built-in power
- I/O: 1 VGA, 2 COM, 1 TPM header
- 4 USB 3.2 Gen1 (2 rear, 2 via header), 3 USB 2.0 (2 rear, 1 via Type-A)
- Intel® C741 controller for 10 SATA3 (6 Gbps) ports

Optimized Servers

[SYS-111E-FDWTR \(/de/products/system/iot/1u/sys-111e-fdwtr\)](#), [SYS-111E-FWTR \(/de/products/system/iot/1u/sys-111e-fwtr\)](#), [SYS-E403-13E-FRN2T \(/de/products/system/iot/fan-based-embedded/sys-e403-13e-fm2t\)](#)

Specifications

Product SKUs MBD-X13SEW-TF
Physical Stats Form Factor Proprietary WIO
Dimension 8" x 13" (20.32cm x 33.02cm)
Processor CPU 5th Gen Intel® Xeon® (/de/support/resources/cpu-5th-gen-intel-xeon-scalable/) / 4th Gen Intel® Xeon® Scalable processors (/de/support/resources/cpu-4th-gen-intel-xeon-scalable/) Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP *BIOS 2.1 or above is required to support 5th Gen Intel® Xeon® Scalable processors
Core Up to 64 cores
System Memory Memory Capacity 8 DIMM slots Up to 2TB 3DS ECC RDIMM, DDR5-5600MHz **24GB & 48GB DIMM only support 1 DPC. *24GB/48GB/96GB DDR5 DIMMs with 24Gb chip are only supported by 5th and 4th XCC Gen Intel® Xeon-SP CPU.
Memory Type 5600/5200/4800/4400/4000 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 5600MT/s(1DPC)
DIMM Sizes 16GB, 24GB, 32GB, 48GB, 64GB, 96GB, 128GB, 256GB
Memory Voltage 1.1V
Error Detection Corrects single-bit errors
On-Board Devices Chipset Intel® C741
SATA Intel® C741 controller for 10 SATA3 (6 Gbps) ports; RAID 0, 1, 5, 10
IPMI ASPEED AST2600 BMC
Graphics 1 ASPEED AST2600 BMC port(s)
Network Controllers Dual LAN with 10GBase-T with Intel® X550
Input / Output SATA 10 SATA3 (6Gbps) port(s)
LAN 2 RJ45 10 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
USB 5 USB 2.0 port(s) (2 rear; 2 via header; 1 Type A) 4 USB 3.2 Gen1 port(s) (2 via header; 2 rear)
Video Output 1 VGA D-Sub Connector port(s)
Serial Port 2 COM Port(s) (1 header; 1 rear)
DOM 2 SATA DOM (/SATA DOM/) (Disk on Module) power connector support
TPM 1 TPM Header

Expansion Slots PCIe 1 PCIe 5.0 x8 Right Riser (in x16) slot, 1 PCIe 5.0 x32 Left Riser Slot, 5 PCIe 5.0 x8 PCIe5.0 M.2 connectors
M.2 M.2 Interface: 1 PCIe 3.0 x2 Form Factor: 2280/22110 Key: M-Key
System BIOS BIOS Type AMI UEFI
BIOS Features ACPI 6.4 SMBIOS 3.5 UEFI 2.8 or above
Management Software Redfish API (/manuals/other/RedfishRefGuide.pdf) , Supermicro Server Manager (SSM) (/solutions/SMS_SSM.cfm) , Supermicro Power Manager (SPM) (/solutions/SMS_SPM.cfm) , Supermicro Update Manager (SUM) (/solutions/SMS_SUM.cfm) , SuperDoctor® 5 (/en/solutions/management-software/superdoctor) , Super Diagnostics Offline (/en/solutions/management-software/super-diagnostics-offline) , KVM with dedicated LAN (/manuals/other/BMC_IPMI_X13_H13.pdf#page=112) , IPMI 2.0 (/solutions/IPMI.cfm)
Security Hardware Trusted Platform Module (TPM) 2.0
PC Health Monitoring Voltage VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 6 - fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages
LED UID/Remote UID CPU / System Overheat LED
Temperature Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
FAN 6x4-pin fan headers (up to 6 fans) Fan speed control 6 fans with tachometer status monitoring Overheat LED indication
Other Features WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management

Parts List

Standard Parts (Bulk Package)

CPU carrier		
Part Number	SKT-1333L-0000-FXC	SKT-1424L-001B-FXC
Qty	1	1
Description	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (XCC)	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (MCC)

SATA cable	
Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Standard Parts (Retail Package)

CPU carrier		
Part Number	SKT-1333L-0000-FXC	SKT-1424L-001B-FXC
Qty	1	1
Description	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (XCC)	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (MCC)

QRG	
Part Number	MNL-2413-QRG
Qty	1
Description	Quick Reference Guide

SATA cable	
Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Optional Parts

TPM security module	
Part Number	AOM-TPM-9670V
Qty	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor

Global SKU (/de/products/SMC_global_skus)