



Workstation

Key Features

- Intel® Xeon® W-3400 series and Xeon® W-2400 series processors, TDP up to 350W
- Intel® W790
- Up to 2TB RDIMM 3DS, 512GB ECC RDIMM; DDR5-4800MT/s (1DPC)/4400MT/s (2DPC), in 8 DIMM slots
- 3 PCIe 5.0 x16 Slots, support up to 3 Single Width/2 Double Width/2 Triple Width GPU cards
- 1 PCIe 4.0 x4 Slots
- M.2 Interface:** 2 PCIe 5.0 x4
- M.2 Form Factor:** 2280/22110
- M.2 Key:** M-Socket (w/o heat sink)
- 1GbE LAN port with Intel® Ethernet Controller I210-AT
- 10GbE LAN with Marvell AQC113
- 6 SATA 3 (6Gb, RAID 0, 1, 5, 10)
- IPMI Supported
- Overclocking Supported (optional)

Optimized Servers

[SYS-531A-I \(/en/products/system/up_workstation/mid-tower/sys-531a-i\)](#)

Specifications

Product SKUs
MBD-X13SRA-TF
Physical Stats
Form Factor
CEB
Dimension
12" x 10" (30.48cm x 25.4cm)
Processor
CPU
Intel® Xeon® W-3400 series and Xeon® W-2400 series processors (/en/support/resources/cpu-intel-xeon-w)
Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
** Support CPU overclocking (optional, processors model name with the X suffix)
Core
Up to 56 cores
System Memory
Memory Capacity
8 DIMM slots
Up to 2TB 3DS ECC Registered RDIMM, DDR5-4800MHz
Memory Type
4800/4400 MT/s ECC DDR5 RDIMM (3DS)
Up to 2TB 3DS ECC RDIMM, 512GB ECC RDIMM; DDR5-4800MT/s(1DPC)/4400MT/s(2DPC), with Intel Xeon W-2400 series processor in 8 DIMM slots.
DIMM Sizes
16GB, 32GB, 64GB, 128GB, 256GB
RDIMM: 16GB, 32GB, 64GB, 128GB, 256GB
Memory Voltage
1.1V
On-Board Devices
Chipset
Intel® W790
SATA
Intel® W790 controller for 6 SATA3 (6 Gbps) ports; RAID 0, 1, 5, 10
Audio
Realtek ALC888S 7.1 HD Audio
Network Controllers
Single LAN with Intel® Ethernet Controller I210-AT, 1x1GbE LAN Port with Intel I210AT, share with IPMI
Single LAN with Marvell AQC113, 1x 10GbE RJ45 LAN port with AQC113
Input / Output
SATA
6 SATA 3 (6Gbps) port(s)
USB
2 USB 2 port(s) (2 via header)
2 USB 3.2 Gen1 port(s) (2 via header)
2 USB 3.2 Gen2x2 port(s) (1 rear type C; 1 via header)
4 USB 3.2 Gen2x1 port(s) (4 rear Type A)
Video Output
1 VGA port(s)
Serial Port
1 COM Port(s) (1 rear)
TPM
1 TPM Header

Expansion Slots
PCIe
1 PCIe 4.0 x4, 3 PCIe 5.0 x16
M.2
M.2 Interface: 2 PCIe 5.0 x4, RAID 0 & 1
Form Factor: 22110, 2280
Key: M-Key
System BIOS
BIOS Type
32MB SPI Flash with AMI BIOS
BIOS Features
ACPI 6.0
Plug and Play (PnP)
BIOS rescue hot keys
Riser card auto-detection support
SMBIOS 3.0 or later
Management
Software
Redfish API (/manuals/other/RedfishRefGuide.pdf) , Supermicro Server Manager (SSM) (/solutions/SMS_SSM.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)
Power Configurations
Power-on mode for AC power recovery, ACPI Power Management, Power button override mechanism
Security
Hardware
Trusted Platform Module (TPM) 2.0
PC Health Monitoring
Voltage
System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +3.3V standby, Vmem, Peripheral temperature, GPU temperature, NvMe temperature, Platform Environment Control Interface (PECI)/(TSI), Vcore
FAN
5x 4-pin fan headers (up to 5 fans)
Fan speed control, 10 4-pin fan headers, CPU/System Overheat LED, Fan failed LED, UID/remote UID, HDD activity LED, LAN activity LED
Other Features
RoHS
Chassis intrusion detection
Power supply monitoring
Operating Environment
Operating Temperature Range
0°C - 50°C (32°F - 122°F)
Non-Operating Temperature Range
-20°C - 60°C (-4°F - 140°F)

Parts List

Standard Parts (Bulk Package)

CPU-GPU power connector adapter

Part Number CBL-PWEX-0663 • [eStore](#)
(<https://store.supermicro.com/supermicro-8-pin-cpu-to-8-pin-pcie-5cm-power-adapter-cable-cbl-pwex-0663.html>).

Qty 1
Description -

E1A Carrier for Intel 112L XCC CPU

Part Number SKT-1333L-0001-LTS

Qty 1

Description E1A Carrier for Intel® Xeon® W-3400 series (112L) processors

E1B Carrier for Intel 64L MCC CPU

Part Number SKT-1424L-001B-LTS

Qty 1

Description E1B Carrier for Intel® Xeon® W-2400 series (64L) processors

I/O Shield

Part Number MCP-260-00183-0B

Qty 1

Description Standard I/O Shield for X13SRA-TF with EMI Gasket & Black Mylar

SATA Cables

Part Number CBL-0044L • [eStore](#)
(<https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044.html>).

Qty 2
Description SATA Cables

Standard Parts (Retail Package)

CPU-GPU power connector adapter

Part Number CBL-PWEX-0663 • [eStore](#)
(<https://store.supermicro.com/supermicro-8-pin-cpu-to-8-pin-pcie-5cm-power-adapter-cable-cbl-pwex-0663.html>).

Qty 1
Description -

E1A Carrier for Intel 112L XCC CPU

Part Number SKT-1333L-0001-LTS

Qty 1

Description E1A Carrier for Intel® Xeon® W-3400 series (112L) processors

E1B Carrier for Intel 64L MCC CPU

Part Number SKT-1424L-001B-LTS

Qty 1

Description E1B Carrier for Intel® Xeon® W-2400 series (64L) processors

I/O Shield

Part Number MCP-260-00183-0B

Qty 1

Description Standard I/O Shield for X13SRA-TF with EMI Gasket & Black Mylar

Quick Reference Guide

Part Number MNL-2510-QRG

Qty 1

Description X13SRA-TF Quick Reference Guide

SATA Cables

Part Number CBL-0044L • [eStore](#)
(<https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044.html>).

Qty 6
Description SATA Cables

Optional Parts

Passive heatsink

Part Number SNK-C0156L

Qty 1

Description M.2 Passive Heat Sink for X13SRA-TF

TPM security module (optional, not included)

Part Number AOM-TPM-9670V

Qty 1

Description SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor