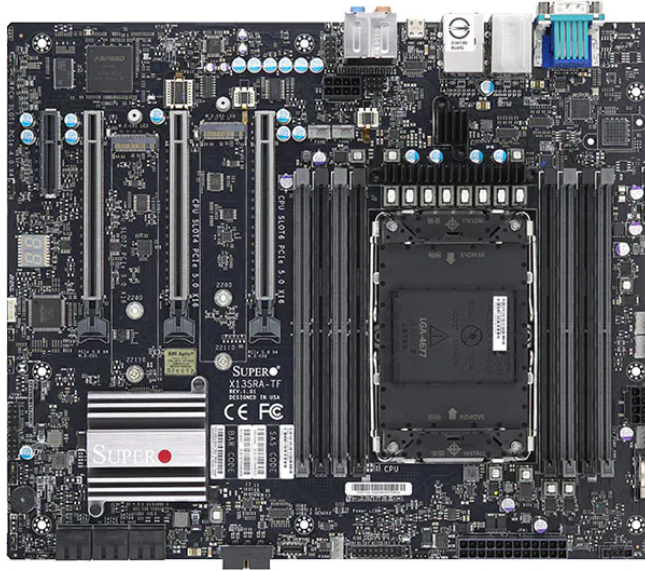


# X13SRA-TF

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## 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](#)

### 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

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) 1.Up to 4TB 3DS ECC RDIMM, 1TB ECC RDIMM; DDR5-4800MT/s(1DPC)/ 4400MT/s(2DPC), with Intel Xeon W-3400 series processor in 16 DIMM slots. 2.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, 1x 1GbE 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 &amp; 1

Form Factor: 22110, 2280

Key: M-Key

## System BIOS

### BIOS Type

256MB 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, Supermicro Server Manager (SSM), Supermicro Update Manager (SUM), SuperDoctor® 5, Super Diagnostics Offline, KVM with dedicated LAN, IPMI 2.0

### Power Configurations

Power-on mode for AC power recovery, ACPI Power Management, Power button override mechanism

## Security

### Hardware

Trusted Platform Module (TPM) 2.0

Silicon Root of Trust (RoT) – NIST 800-193 Compliant

### Features

Cryptographically Signed Firmware

Secure Boot

Secure Firmware Updates

Automatic Firmware Recovery

Supply Chain Security: Remote Attestation

Runtime BMC Protections

System Lockdown

## 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](#)

Qty 1

Description -

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#### 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

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#### 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

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#### I/O Shield

Part Number MCP-260-00183-0B

Qty 1

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

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#### SATA Cables

Part Number CBL-0044L • [eStore](#)

Qty 2

Description SATA Cables

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### Standard Parts (Retail Package)

#### CPU-GPU power connector adapter

Part Number CBL-PWEX-0663 •

[eStore](#)

Qty 1

Description -

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#### 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

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#### I/O Shield

Part Number MCP-260-00183-0B

Qty 1

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

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#### Quick Reference Guide

Part Number MNL-2510-QRG

Qty 1

Description X13SRA-TF Quick  
Reference Guide

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### SATA Cables

Part Number CBL-0044L • [eStore](#)

Qty 6

Description SATA Cables

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### Optional Parts

#### Passive heatsink

Part Number SNK-C0156L

Qty 1

Description M.2 Passive Heat Sink  
for X13SRA-TF

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