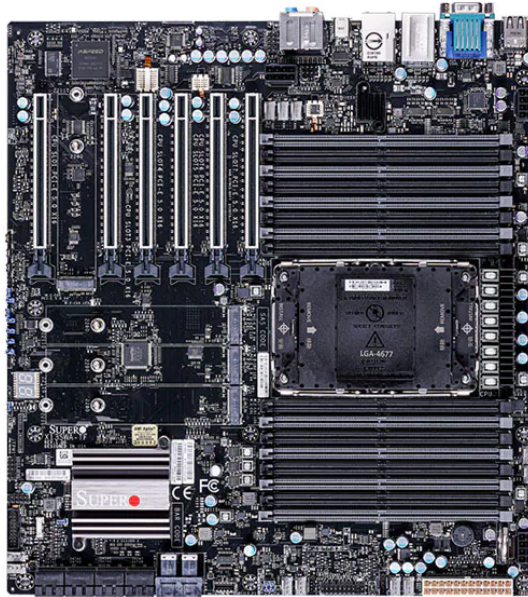


# X13SWA-TF

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## Workstation

### Key Features

Intel® Xeon® W-3400 series and Xeon® W-2400 series processors, Up to 350W TDP

Intel® W790

Up to 4TB/2TB 3DS ECC RDIMM, 1TB/512GB ECC RDIMM; DDR5-4800MT/s(1DPC)/ 4400MT/s(2DPC), in 16 DIMM slots

**M.2 Interface:** 4 PCIe 5.0 x4

**M.2 Form Factor:** 2280/22110

**M.2 Key:** M-Socket (w/o heat sink)

Xeon® W-3400 Series Processors: 6 PCIe 5.0 x16 Slots, support up to 6 Single Width/4 Double Width/2 Triple Width GPU cards  
Xeon® W-2400 Series Processors: 3 PCIe 5.0 x16 Slots, support up to 3 Single Width/3 Double Width/2 Triple Width GPU cards (slot 3/5/7)

1GbE LAN port with Intel® Ethernet Controller I210-AT

10GbE LAN with Marvell AQC113C

8 SATA 3 (6Gb, RAID 0, 1, 5, 10)

2 U.2 PCIe 3.0 for NVMe 2.5" SSD drives (U.2-1, U.2-2)

IPMI Supported

Overclocking Supported (optional)

### Specifications

**Product SKUs****MBD-X13SWA-TF****Physical Stats****Form Factor**

E-ATX

**Dimension**

13" x 12" (330.2cm x 304.8cm)

**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**

16 DIMM slots

Up to 4TB 3DS ECC Registered RDIMM, DDR5-4800MHz

**Memory Type**

4800/4400MHz ECC DDR5 RDIMM (3DS) 4TB

**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 8 SATA3 (6 Gbps) ports; RAID 0, 1, 5, 10

**Audio**

1x Realtek ALC888S 7.1 HD Audio port(s) Realtek ALC888S 7.1 HD  
Audio

**Network Controllers**

Single LAN with Marvell AQC113C, 1x 10GbE RJ45 LAN port with  
AQC113C

Single LAN with Intel® Ethernet Controller I210-AT, 1x 1GbE LAN  
Port with Intel i210AT, share with IPMI

**Input / Output****SATA**

8 SATA 3 (6Gbps) port(s)

**USB**

4 USB 2 port(s) (2 via header; 2 rear Type A)

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)

2 USB 3.2 Gen1 port(s) (2 via header)

**Video Output**

1 VGA port(s) for IPMI only

**Serial Port**

1 COM Port(s) (1 rear)

**TPM**

1 TPM Header

**Expansion Slots****PCIe**

6 PCIe 5.0 x16

**M.2**

M.2 Interface: 4 PCIe 5.0 x4, RAID 0, 1, 5, 10

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**

SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, SMCIPMITool, IPMIView

**Power Configurations**

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

**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**

10x 4-pin fan headers (up to 10 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 •



Qty 1

Description -

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

Part Number SKT-1333L-0001-LTS

Qty 1

Description E1A Carrier for Intel®  
Xeon® W-3400 series  
(112L) processors**E1B Carrier for Intel® Xeon® W-2400 series (64L) processors**

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-260-00182-0B

Qty 1

Description Standard I/O Shield for  
X13SWA-TF with EMI  
Gasket & Black Mylar**SATA Cables**Part Number CBL-0044L • [eStore](#)

Qty 2

Description SATA Cables

**Standard Parts (Retail Package)****CPU-GPU power connector adapter**

Part Number CBL-PWEX-0663 •

[eStore](#)

Qty 1

Description -

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

Part Number SKT-1333L-0001-LTS

Qty 1

Description E1A Carrier for Intel®  
Xeon® W-3400 series  
(112L) processors**E1B Carrier for Intel® Xeon® W-2400 series (64L) processors**

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-260-00182-0B

Qty 1

Description Standard I/O Shield for  
X13SWA-TF with EMI  
Gasket & Black Mylar**Quick Reference Guide**

Part Number MNL-2444-QRG

Qty 1

Description X13SWA-TF Quick  
Reference Guide**SATA Cables**Part Number CBL-0044L • [eStore](#)

Qty 6

Description SATA Cables