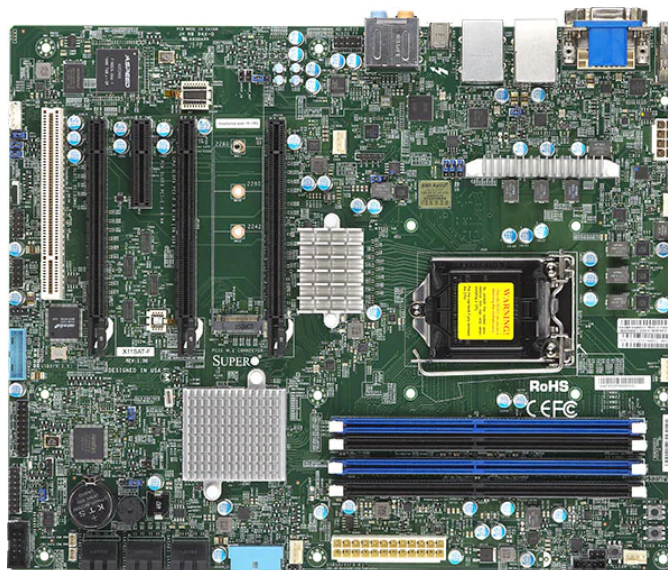


# X11SAT-F

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## Workstation

### Key Features

Single socket H4 (LGA 1151) supports

Intel® Xeon® processor E3-1200 v5/v6,

Intel® 6th/7th Gen. Core™ i7/i5/i3 series,

Intel® Celeron® and Intel® Pentium®

Intel® C236 chipset

Up to 64GB Unbuffered ECC/non-ECC UDIMM DDR4 2400MHz; 4 DIMM slots

3 PCIe 3.0 x16 (run at 16/NA/16 or 16/8/8), 1 PCIe 3.0 x1 (in x4), and 1 5V PCI 32-bit slots

6 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10

M.2 NGFF connector

Single GbE LAN with Intel® i210-AT,

Single GbE LAN with Intel® i219LM

6 USB 3.0 (2 rear + 4 via header(s)) ,

4 USB 2.0 (2 rear + 2 via header(s)),

1 USB 3.1 (10Gbps) Type C ports (rear, share with Thunderbolt and display port)

I/O: 1 VGA, 1 COM, TPM header

### Specifications

**Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for replacement SKUs.**

#### **MBD-X11SAT-F**

#### **Physical Stats**

##### **Form Factor**

ATX

##### **Dimension**

12" x 9.6" (30.48cm x 24.38cm)

#### **Processor**

##### **CPU**

Intel® Xeon® processor E3-1200 v6/v5, Intel® 6th/7th Generation Core™ i3 series, Intel® 6th/7th Generation Core™ i5 series, Intel® 6th/7th Generation Core™ i7 series

Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP

#### **System Memory**

##### **Memory Capacity**

4 DIMM slots

Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400MHz

##### **Memory Type**

2400/2133/1866/1600 MT/s SDRAM 72-bit, 288-pin gold-plated DIMMs

##### **DIMM Sizes**

4GB, 8GB, 16GB

##### **Memory Voltage**

1.2V

##### **Error Detection**

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

#### **On-Board Devices**

##### **Chipset**

Intel® C236

##### **SATA**

Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10

##### **Audio**

ALC 888S HD Audio

##### **Graphics**

1 ASPEED AST2400 BMC port(s)

##### **Network Controllers**

Single LAN with Intel® Ethernet Controller I210-AT, + Single Intel Ethernet PHY i219LM

#### **Input / Output**

##### **USB**

4 USB 2.0 port(s) (2 rear; 2 via header)

6 USB 3.1 Gen1 port(s) (2 rear type A; 4 via header)

1 USB 3.1 Gen2 port(s) (1 rear type C)

##### **Video Output**

1 VGA port(s), 1 DP (DisplayPort) port(s), 1 HDMI port(s), 1 DVI - D port(s)

##### **Serial Port**

1 COM Port(s) (1 header)

##### **TPM**

1 TPM Header

#### **Expansion Slots**

##### **PCIe**

3 PCIe 3.0 x16,

1 PCIe 3.0 x1

1 - 5V PCI 32bit

\*\*\*3 PCIe x16 slots are running at 16/NA/16 or 16/8/8.\*\*\* PCIe x1 is in x4 slot\*\*\*

##### **M.2**

M.2 Interface: 1 PCIe 3.0 x4

Form Factor: 2242/2260/2280

Key: M-Key

#### **System BIOS**

##### **BIOS Type**

AMI UEFI

##### **BIOS Features**

Plug and Play (PnP)

DMI 2.3

PCI 3.0

ACPI 5.0

USB Keyboard support

Hardware BIOS Virus protection

SMBIOS 3.0

UEFI 2.3.1

RTC (Real Time Clock) Wakeup

#### **Management**

##### **Software**

SuperDoctor® 5, [SPM](#), [IPMI2.0](#), Watchdog

##### **Power Configurations**

Power-on mode for AC power recovery, ACPI Power Management, Keyboard Wakeup from Soft-Off, CPU Fan auto-off in sleep mode

#### **PC Health Monitoring**

##### **Voltage**

VBAT, Monitors CPU voltages, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V

##### **LED**

UID/Remote UID

Suspend static indicator LED

CPU / System Overheat LED

##### **Temperature**

CPU thermal trip support

Thermal Monitor 2 (TM2) support

PECI

I2C temperature sensing logic

##### **FAN**

5x 4-pin fan headers (up to 5 fans)

Fan speed control

Overheat LED indication

##### **Other Features**

WOL, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, ATX Power connector, 8-pin 12v DC power connector, Intel Smart Response Technology

#### **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)

**IO shield**

Part Number MCP-260-00097-0N • [eStore](#)

Qty 1

Description X11SAT-F I/O Shield

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**SATA cable**

Part Number CBL-0044L • [eStore](#)

Qty 2

Description 57.5CM SATA FLAT S-S PBF

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**Standard Parts (Retail Package)****IO shield**

Part Number MCP-260-00097-0N • [eStore](#)

Qty 1

Description X11SAT-F I/O Shield

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**Quick Reference Guide**

Part Number MNL-1823-QRG

Qty 1

Description X11SAT-F Quick Reference Guide

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**SATA cable**

Part Number CBL-0044L • [eStore](#)

Qty 6

Description 57.5CM SATA FLAT S-S PBF

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**Optional Parts****TPM security module (optional, not included)**

Part Number	AOM-TPM-9655V	AOM-TPM-9665H-C	AOM-TPM-9665H	AOM-TPM-9665H-FC	AOM-TPM-9655H-C
	AOM-TPM-9655H	AOM-TPM-9665V-C	AOM-TPM-9665V	AOM-TPM-9665V-FC	AOM-TPM-9655V-C
Qty	1	1	1	1	1
	1	1	1	1	1
Description	-	-	-	-	-
	-	-	-	-	-

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