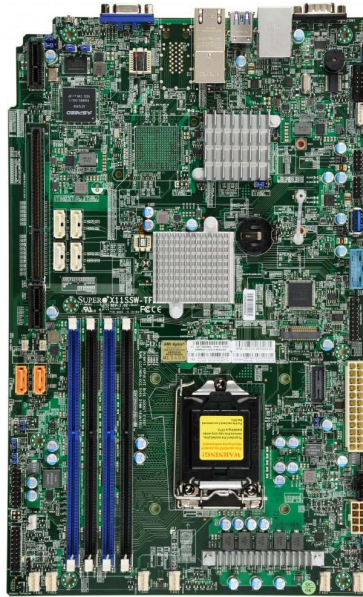


# X11SSW-TF

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## Intel® QSV & VHD with GT2

### Key Features

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® C236 chipset
3. Support Intel® VHD with selected CPU
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
5. M.2 NGFF connector  
**M.2 Interface:** PCI-E 3.0 x4  
Form Factor: 2260, 2280, 22110  
Key: M-Key  
Double Height Connector
6. 6 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10
7. Intel® X540 Dual port 10GBase-T
8. I/O: 1 VGA, 2 COM, TPM header
9. 2 SuperDOM with built-in power
10. 5 USB 3.0 (2 rear, 2 via header(s), 1 Type A),  
6 USB 2.0 (2 rear, 4 via header(s))

## Specifications

### Expansion Slots

<b>PCI-E</b>	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x16 Left Riser Slot</li> </ul>
<b>M.2</b>	<ul style="list-style-type: none"> <li>M.2 Interface: PCI-E 3.0 x4</li> <li>Form Factor: 22110, 2280, 2260</li> <li>Key: M-Key</li> </ul>

### System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128MB SPI Flash EEPROM with AMI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>APM 1.2</li> <li>DMI 2.3</li> <li>Hardware BIOS Virus protection</li> <li>PCI 2.3</li> <li>Plug and Play (PnP)</li> <li>RTC (Real Time Clock) Wakeup</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> <li>USB Keyboard support</li> </ul>

### Management

<b>Software</b>	<ul style="list-style-type: none"> <li>SuperDoctor® 5, NMI, <a href="#">SUM</a>, <a href="#">SPM</a>, Intel® Node Manager, <a href="#">SSM</a>, <a href="#">IPMI2.0</a>, Watchdog</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>Power-on mode for AC power recovery, ACPI Power Management</li> </ul>

### PC Health Monitoring

<b>Voltage</b>	<ul style="list-style-type: none"> <li>VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, 6 -fan status, +5V standby, +5V, +3.3V, +12V</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>UID/Remote UID</li> <li>CPU / System Overheat LED</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>6x 4-pin fan headers (up to 6 fans)</li> <li>Thermal control tachometer fan connectors</li> <li>Fan speed control</li> <li>Overheat LED indication</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>WOL</li> <li>M.2 NGFF connector</li> <li>CPU thermal trip support for processor protection</li> <li>Control of power-on for recovery from AC power loss</li> <li>VHD</li> </ul>

## Product SKUs

<b>MBD-X11SSW-TF</b>	<ul style="list-style-type: none"> <li>▪ X11SSW-TF</li> </ul>
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## Physical Stats

<b>Form Factor</b>	<ul style="list-style-type: none"> <li>▪ Proprietary</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>▪ 8" x 13" (20.32cm x 33.02cm)</li> </ul>

## Processor

<b>CPU</b>	<ul style="list-style-type: none"> <li>▪ Intel® Celeron®, Intel® Pentium®, Intel® 7th/6th Generation Core i3 series, Intel® Xeon® processor E3-1200 v6/v5</li> <li>▪ Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 80W TDP</li> </ul>
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## System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>▪ 4 DIMM slots</li> <li>▪ 64GB ECC UDIMM, DDR4-2400MHz</li> </ul>
<b>Memory Type</b>	<ul style="list-style-type: none"> <li>▪ 2400/2133/1866/1600MHz SDRAM 72-bit, 288-pin gold-plated DIMMs</li> <li>▪ SDRAM 72-bit, 288-pin gold-plated DIMMs</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>▪ 4GB, 8GB, 16GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>▪ 1.2V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>▪ Corrects single-bit errors</li> </ul>

## On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>▪ Intel® C236</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>▪ Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>▪ ASPEED AST2400 BMC</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>▪ ASPEED AST2400 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>▪ Dual LAN with Intel® X540 10GBase-T Ethernet Controller</li> </ul>

## Input / Output

<b>SATA</b>	<ul style="list-style-type: none"> <li>▪ 6 SATA3 (6Gbps) port(s)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>▪ 2 RJ45 10GBase-T ports</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>▪ 3 USB 3 port(s) (1 Type A; 2 via header)</li> <li>▪ 6 USB 2.0 port(s) (4 via header; 2 rear)</li> <li>▪ 2 USB 3.0 port(s) (2 rear)</li> </ul>
<b>Video Output</b>	<ul style="list-style-type: none"> <li>▪ 1 VGA port(s)</li> </ul>
<b>Serial Port</b>	<ul style="list-style-type: none"> <li>▪ 2 COM Port(s) (1 header; 1 rear)</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>▪ 2 SuperDOM (Disk on Module) power connector</li> </ul>
<b>TPM</b>	<ul style="list-style-type: none"> <li>▪ 1 TPM Header</li> </ul>

## Operating Environment

<b>Operating Temperature Range</b>	<ul style="list-style-type: none"> <li>▪ 0°C - 50°C (32°F - 122°F)</li> </ul>
<b>Non-Operating Temperature Range</b>	<ul style="list-style-type: none"> <li>▪ -40°C - 70°C (-40°F - 158°F)</li> </ul>
<b>Operating Relative Humidity Range</b>	<ul style="list-style-type: none"> <li>▪ 8% - 90% (non-condensing)</li> </ul>
<b>Non Operating Relative Humidity Range</b>	<ul style="list-style-type: none"> <li>▪ 5% - 95% (non-condensing)</li> </ul>



## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSW-TF	1	X11SSW-TF Motherboard
I/O Cables	CBL-0044L • <a href="#">eStore</a>	2	57.5CM SATA FLAT S-S PBF

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSW-TF	1	X11SSW-TF Motherboard
I/O Cables	CBL-0044L • <a href="#">eStore</a>	6	57.5CM SATA FLAT S-S PBF
QRG	MNL-1925-QRG	1	Motherboard Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-240-00159-0N	--	Optional WIO rear window MCP-240-00159-0N with removable I/O will require for 1U WIO redundant power supply chassis

### Chassis (Optimized for X11SSW-TF)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<a href="#">SC514-R400C</a> <a href="#">SC515-350</a> <a href="#">SC514-505</a> <a href="#">SC515-505</a> Heatsink:SNK-P0046P				

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU