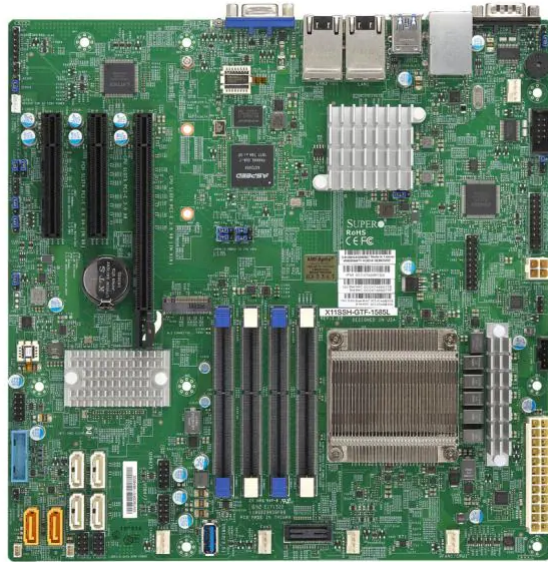


# X11SSH-GF-1585

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**Intel® QSV &  
VHD with GT4e**

## Key Features

1. Intel® Xeon® processor E3-1585 v5,  
Single socket FCBGA 1440,  
4-Core, 8 Threads, 65W

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2. Intel® C236 chipset

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3. Up to 64GB ECC Unbuffered SO-DIMM,  
DDR4 2133MHz; 4 DIMM slots

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4. Expansion slots:  
1 PCI-E 3.0 x8 (in x16),  
1 PCI-E 3.0 x8,  
1 PCI-E 3.0 x4 (in x8)

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5. M.2 NGFF connector  
**M.2 Interface:** PCI-E 3.0 x4 and SATA  
Form Factor: 2242, 2280, 22110  
Key: M-Key  
Double Height Connector

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

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7. Support Intel® Iris Pro Graphics P580 (GT4e) ,  
for VHD and Quick Sync Video

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8. 2 SuperDOM with built-in power

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9. 5 USB 3.0 (2 rear, 1 Type A, 2 internal)

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# Specifications

## Product SKUs

<b>MBD-X11SSH-GF-1585</b>	<ul style="list-style-type: none"> <li>X11SSH-GF-1585</li> </ul>
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## Physical Stats

<b>Form Factor</b>	<ul style="list-style-type: none"> <li>Micro-ATX</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>9.6" x 9.6" (24.38cm x 24.38cm)</li> </ul>

## Processor

<b>CPU</b>	<ul style="list-style-type: none"> <li>Intel® Xeon® processor E3-1585 v5</li> <li>Single Socket FCBGA-1440 supported, CPU TDP supports Up to 65W 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 SODIMM, DDR4-2133MHz</li> </ul>
<b>Memory Type</b>	<ul style="list-style-type: none"> <li>2133/1866/1600MHz ECC DDR4 SODIMM</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>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Support for Intelligent Platform Management Interface v.2.0</li> <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® i350 Gigabit Ethernet Controller</li> </ul>

## Input / Output

<b>USB</b>	<ul style="list-style-type: none"> <li>3 USB 3 port(s) (1 Type A; 2 via header)</li> <li>8 USB 2.0 port(s) (2 rear; 6 via header)</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>

## Expansion Slots

<b>PCI-E</b>	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x8 (in x16 slot),</li> <li>1 PCI-E 3.0 x8,</li> <li>1 PCI-E 3.0 x4 (in x8 slot)</li> </ul>
<b>M.2</b>	<ul style="list-style-type: none"> <li>M.2 Interface: PCI-E 3.0 x4; SATA</li> <li>Form Factor: 22110, 2242, 2280</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>SMBIOS 2.7.1</li> <li>APM 1.2</li> <li>DMI 2.3</li> <li>UEFI 2.3.1</li> <li>Hardware BIOS Virus protection</li> <li>USB Keyboard support</li> <li>RTC (Real Time Clock) Wakeup</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, +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>5x 4-pin fan headers (up to 5 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>
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## Operating Environment

**Operating Temperature Range** ■ 0°C - 50°C (32°F - 122°F)

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**Non-Operating Temperature Range** ■ -40°C - 70°C (-40°F - 158°F)

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**Operating Relative Humidity Range** ■ 8% - 90% (non-condensing)

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**Non Operating Relative Humidity Range** ■ 5% - 95% (non-condensing)

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## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSH-GF-1585	1	X11SSH-GF-1585 Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O SHIELD FOR X9 SOCKET R SERVER MB

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSH-GF-1585	1	X11SSH-GF-1585 Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O SHIELD FOR X9 SOCKET R SERVER MB
QRG	MNL-1924-QRG	1	Motherboard Quick Reference Guide

### Chassis (Optimized for X11SSH-GF-1585)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<ul style="list-style-type: none"> <li>● <a href="#">SC113MFAC2-R606CB</a></li> <li><a href="#">SC813MTQ-350CB</a></li> <li><a href="#">SC512F-350B</a></li> <li>● <a href="#">SC113MFAC2-605CB</a></li> <li>● <a href="#">SC813MFTQC-R407CB</a></li> <li>● <a href="#">SC813MFTQC-350CB</a></li> </ul>				

● = Most optimized Chassis for SuperServer Configuration  
 Blue color = Compatible  
 Green color = Global SKU & Compatible  
 Red dot & green color = Optimized + Global SKU

