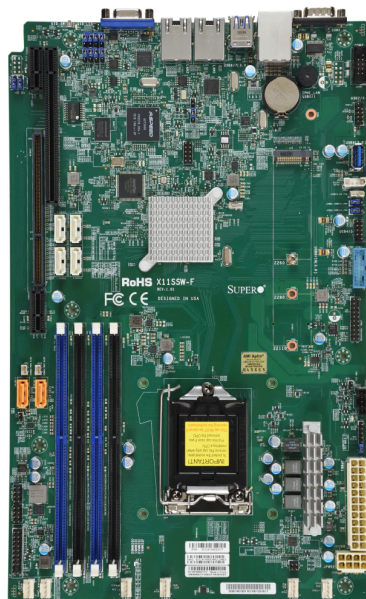




WIO

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. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
4. Expansion slots:
 - 1 PCI-E 3.0 x4
 - (in x16, Right Riser slot),
 - 1 PCI-E 3.0 x16 (Left Riser slot)
5. Dual GbE LAN with Intel® i210-AT
6. 6 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10
7. I/O: 1 VGA, 2 COM, TPM header
8. 2 SuperDOM with built-in power
9. 5 USB 3.0 (2 rear, 2 via header(s), 1 Type A), 6 USB 2.0 (2 rear, 4 via header(s))
10. M.2 NGFF connector
 - M.2 Interface: PCI-E 3.0 x4 and SATA
 - Form Factor: 2260, 2280, 22110
 - Key: M-Key
 - Double Height Connector

Links & Resources

- [Tested Memory List](#)
- [Tested HDD / SSD List](#)
- [Tested M.2 List](#)
- [Tested AOC List](#)
- [Motherboard Manual](#)
- [Quick Reference Guide](#)
- [Update Your BIOS](#)
- [BMC/IPMI Firmware](#)
- [Download the Latest Drivers and Utilities](#)
- [Download Driver CD](#)
- [OS Compatibility](#)
- [Optimization](#)



Specifications

Product SKUs

MBD-X11SSW-F	■ X11SSW-F
--------------	------------

Physical Stats

Form Factor	■ Proprietary
-------------	---------------

Dimensions	■ 8" x 13" (20.32cm x 33.02cm)
------------	--------------------------------

Processor/Cache

CPU	■ Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. ■ Single Socket H4 (LGA 1151) supported, CPU TDP support 80W
-----	---

Note	■ BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ i3 Processors and Intel® Xeon® Processor E3-1200 v6 series
------	---

System Memory

Memory Capacity	■ 64GB Unbuffered ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots
-----------------	--

Memory Type	■ 2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
-------------	---

DIMM Sizes	■ 4GB, 8GB, 16GB
------------	------------------

Memory Voltage	■ 1.2V
----------------	--------

Error Detection	■ Corrects single-bit errors
-----------------	------------------------------

On-Board Devices

Chipset	■ Intel® C236
---------	---------------

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

IPMI	■ ASPEED AST2400 BMC
------	----------------------

Network Controllers	■ Dual LAN with Intel® Ethernet Controller I210-AT
---------------------	--

Graphics	■ Aspeed AST2400 BMC
----------	----------------------

Input / Output

USB	■ 6 USB 2.0 ports (2 rear + 4 headers) ■ 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
-----	---

Video Output	■ 1 VGA port
--------------	--------------

Serial Port / Header	■ 2 COM Ports (1 rear, 1 header)
----------------------	----------------------------------

TPM	■ TPM Header
-----	--------------

Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x16 Left Riser Slot, ■ 1 PCI-E 3.0 x4 (in x16 slot)
-------	--

M.2	■ M.2 Interface: PCI-E 3.0 x4 and SATA ■ Form Factor: 2260, 2280, 22110 ■ Key: M-Key ■ Double Height Connector
-----	---

System BIOS

BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS
-----------	--

BIOS Features	■ ACPI 1.0 / 2.0 / 3.0 / 4.0 ■ APM 1.2 ■ DMI 2.3 ■ Hardware BIOS Virus protection ■ PCI 2.3 ■ Plug and Play (PnP) ■ SMBIOS 2.7.1 ■ UEFI 2.3.1 ■ USB Keyboard support
---------------	--

Management

Software	■ Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
----------	--

Power Configurations	■ ACPI Power Management ■ Power-on mode for AC power recovery
----------------------	--

PC Health Monitoring

Voltage	■ +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
---------	--

FAN	■ 6x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
-----	--

Temperature	■ Monitoring for CPU and chassis environment, CPU thermal trip support, Thermal Monitor 2 (TM2) support, PECI
-------------	---

LED	■ UID/Remote UID, CPU / System Overheat LED
-----	---

Other Features	■ Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, WOL
----------------	---

Operating Environment

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

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

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

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

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSW-F	1	X11SSW-F Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSW-F	1	X11SSW-F Motherboard
QRG	MNL-1784-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF

Chassis (Optimized for X11SSW-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
1U Heatsink:SNK-P0046P	● SC815TQC-R504WB ● SC815TQ-R500WB ● SC116AC2-R706WB ● SC514-R407W SCLA15TQC-563W 1U Heatsink:SNK-P0046P				

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

Server (Optimized for X11SSW-F)

Server Name
<u>SYS-5019S-WR</u>
<u>SYS-1019S-WR</u>