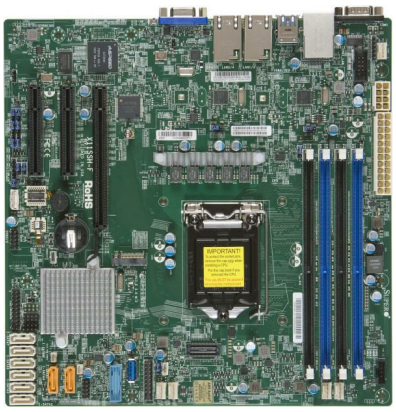
X11SSH-F

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 x8 (in x16),
   1 PCI-E 3.0 x8,
   1 PCI-E 3.0 x4 (in x8)
5. Dual GbE LAN with Intel® i210-AT
6. 8 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10
7. I/O: 1 VGA, 2 COM, TPM header
8. Support Intel® VHD with selected CPU
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 x2
    Form Factor: 2280
    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

Specifications

Product SKUs

MBD-X11SSH-F	X11SSH-F

Physical Stats

Form Factor	Micro-ATX
Dimensions	9.6" x 9.6" (24.38cm x 24.38cm)

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 8 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)

Expansion Slots

PCI-E	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot)
M.2	M.2 Interface: PCI-E 3.0 x2 Form Factor: 2280 Key: M-Key Double Height Connector

System BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 PCI 2.3 DMI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.7.1 UEFI 2.3.1

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	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Temperature	Monitoring for CPU and chassis environment, CPU thermal trip support, PECI, Thermal Monitor 2 (TM2) support
LED	CPU / System Overheat LED, UID/Remote UID
Other Features	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL

Operating Environment

Downloaded from Arrow.com.

Video Output	▪ 1 VGA port
Serial Port / Header	▪ 2 COM Ports (1 rear, 1 header)
TPM	▪ TPM Header

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)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk Package)			
Name	**Part Number**	**Qty**	**Description**
Motherboard	MBD-X11SSH-F	1	X11SSH-F Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O Shield for X11SSH-F with EMI Gasket

Parts List (Retail Package)			
Name	**Part Number**	**Qty**	**Description**
Motherboard	MBD-X11SSH-F	1	X11SSH-F Motherboard
QRG	MNL-1778-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O Shield for X11SSH-F with EMI Gasket

Chassis (Optimized for X11SSH-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SC813MFTQC-505CB SC813MFTQ-R400CB SC512F-350B SC113MFAC2-R606CB SC113MFAC2-341CB SC813MTQ-350CB SC813MFTQC-350CB SC815TQ-563CB 1U Heatsink:SNK-P0046P	SC825TQ-R720LPB SC213LT-600LPB SC823TQ-653LPB 2U Heatsink:SNK-P0046A4	SC833T-653B 2U Heatsink:SNK-P0046A4	SC731i-403B SC731i-300B SC731D-300B SC732D3-1200B SC732I-500B SC731i-300B 2U Heatsink:SNK-P0046A4	SC743AC-1200B-SQ SC745BAC-R1K28B2 SC842TQ-665B SC842i-500B 2U Heatsink:SNK-P0046A4

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

Server (Optimized for X11SSH-F)

Server Name
SYS-5019S-M
SYS-5019S-MR
SYS-5019S-ML

Copyright © 2019 Super Micro Computer, Inc.
Information in this document is subject to change without notice.
Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.

Downloaded from Arrow.com.