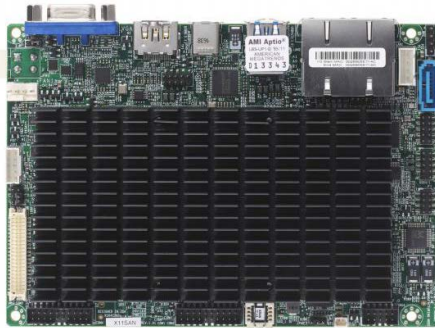




X11SAN



**Low Power
Embedded**

Key Features

1. Up to 8GB 1866MHz DDR3L Non-ECC SO-DIMM in 1 socket
2. Intel® Pentium™ Processor N4200 (6W, 4C)
3. Intel® Goldmont microarchitecture 14nm System-on-Chip
4. Dual GbE LAN with Intel® i210-AT
5. 1 M.2 B-Key 2280, 1 Full size Mini-PCI-E, 1 SATA 3.0
6. 1 HDMI, 1 VGA, 1 48-bit LVDS, Intel® HD Graphic 3 independent displays
7. 1 USB 3.1 Gen2 Type-C port, 2 USB 3.0 ports, 4 USB 2.0 ports, 4 COM ports, 1 SATA 3.0, 8-bit GPIO, SMBus
8. Supports on board TPM 2.0
9. Supports 12V DC power input

Links & Resources

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

Specifications

Product SKUs

MBD-X11SAN	• X11SAN
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Physical Stats

Form Factor	• 3.5" SBC
Dimensions	• 5.7" x 4.0" (14.6cm x 10.16cm)

Processor/Cache

CPU	<ul style="list-style-type: none"> • Intel® Pentium™ Processor N4200. • Single Socket FCBGA1296 supported, CPU TDP support 6W
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System Memory

Memory Capacity	• Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866MHz, in 1 DIMM slot
Memory Type	• DDR3L up to 1866Mhz 8GB
DIMM Sizes	• 2GB, 4GB, 8GB
Memory Voltage	• 1.35V

On-Board Devices

Expansion Slots

PCI-E	<ul style="list-style-type: none"> • 1 Full size Mini-PCI-E (USB2.0 1,PCI-E Gen2 x 1) • 1 M.2 2280 B-Key (PCI-E Gen2 x 1,SATA x 1)
M.2	<ul style="list-style-type: none"> • M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 • Form Factor: 2280 • Key: B-Key

System BIOS

BIOS Type	• AMI UEFI
BIOS Features	<ul style="list-style-type: none"> • Plug and Play (PnP) • DMI 2.3 • ACPI 5.0 • SMBIOS 2.7.1 • UEFI 2.4

Management

Software	• SuperDoctor® 5, Watchdog
Power Configurations	<ul style="list-style-type: none"> • +12V DC Power Input • ACPI Power Management • Control of power-on for recovery from AC power loss

Chipset	<ul style="list-style-type: none"> System on Chip
SATA	<ul style="list-style-type: none"> SoC controller for 1 SATA3 (6 Gbps) ports;
Network Controllers	<ul style="list-style-type: none"> Dual LAN with Intel® Ethernet Controller I210-AT
Audio	<ul style="list-style-type: none"> ALC 888S HD Audio
Graphics	<ul style="list-style-type: none"> Intel® HD Graphics
Input / Output	
SATA	<ul style="list-style-type: none"> 1 SATA3 (6Gbps) port
LAN	<ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet LAN ports
USB	<ul style="list-style-type: none"> 4 USB 2.0 ports (4 headers), 2 USB 3.0 ports (2 rear), 1 USB 3.1 ports (+ 1 Type C)
Video Output	<ul style="list-style-type: none"> 1 VGA port, 1 48-bit LVDS port, 1 HDMI port
Serial Port / Header	<ul style="list-style-type: none"> 4 COM Ports (4 headers), (2 RS232, 2 RS232/422/485, RS-485 supports Auto flow control)
TPM	<ul style="list-style-type: none"> 1 TPM Chip
Others	<ul style="list-style-type: none"> 1 HD Audio header (Mic-in/headphone-Out)(Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header 1 Panel backlight power header 1 Speaker 1 system Fan

	<ul style="list-style-type: none"> Force Power On by Jumper
PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> +1.35V, +12V, +3.3V, +5V, 3.3V standby, System level control, System temperature, VBAT, VCGI
FAN	<ul style="list-style-type: none"> 1x 4-pin fan header (up to 1 fan), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Temperature	<ul style="list-style-type: none"> CPU thermal trip support
LED	<ul style="list-style-type: none"> Standby alert LED
Other Features	<ul style="list-style-type: none"> 4-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL
Operating Environment	
Operating Temperature Range	<ul style="list-style-type: none"> 0°C ~ 60°C (32°F ~ 140°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 85°C (-40°F - 185°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	<ul style="list-style-type: none"> 10% ~ 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-X11SAN	1	X11SAN Motherboard
SATA Power Cable	CBL-PWEX-0982	1	SATA Power Cable 25cm
SATA cable	CBL-SAST-0538	1	SATA Data cable 29CM
Heatsink	SNK-C0103L-1	1	X11SAN Fanless Heatsink with height 19mm


Parts List (Retail Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X11SAN	1	X11SAN Motherboard
Audio Cable	CBL-OTHR-0986	1	Audio Cable 20cm
COM Cable	CBL-CUSB-0984	1	COM Cable 20cm
SATA Power Cable	CBL-PWEX-0982	1	SATA Power Cable 25cm
USB Cable	CBL-CUSB-0983	1	USB2.0 cable 20cm
SATA cable	CBL-SAST-0538	1	SATA Data cable 29CM
Heatsink	SNK-C0103L-1	1	X11SAN Fanless Heatsink with height 19mm
QRG	MNL-1935-QRG	1	Motherboard Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
Mini PCIe extended bracket	MCP-110-00097-0N	1	Mini PCIe extended bracket to extend half size to full size

Chassis (Optimized for X11SAN)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
 SCE102					

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