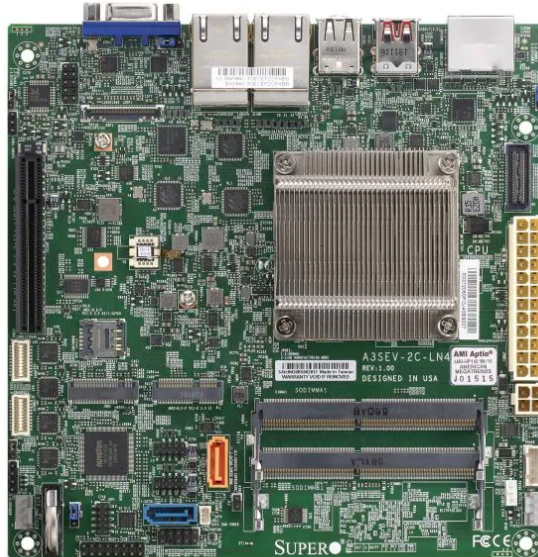


A3SEV-4C-LN4



Embedded Quad 1GbE LAN Quad Core

Key Features

1. Intel® Atom® Processor x6425E
Single Socket FCBGA-1493 supported, CPU TDP supports Up to 12W TDP

2. Up to 32GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots

3. 1 PCI-E 3.0 X2 (in x8 slot)
1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 3042/2280
1 M.2 E-Key PCI-E 3.0 x1/USB 2.0, 2230

4. Single LAN with Intel® Ethernet Controller I210IT
ONLY i210 support PXE
3 LAN with 1GbE with Marvell® 88E1512

5. System on Chip

6. 1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, 1 eDP (Embedded DisplayPort) port, Supports 3 independent displays

Specifications

Product SKUs

MBD-A3SEV-4C-LN4	▪ A3SEV-4C-LN4
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Physical Stats

Form Factor	▪ Mini-ITX
Dimension	▪ 6.7" x 6.7" (17.02cm x 17.02cm)

Processor

CPU	▪ Intel® Atom® Processor x6425E ▪ Single Socket FCBGA-1493 supported, CPU TDP supports Up to 12W TDP
Core	▪ Up to 4 cores, 4 threads

System Memory

Memory Capacity	▪ 2 DIMM slots ▪ Up to 32GB ECC/non-ECC SODIMM, DDR4-3200MHz
Memory Type	▪ 3200MHz ECC/non-ECC DDR4 SODIMM 3200MHzMT/s 260pin up to 32GB
DIMM Sizes	▪ 8GB, 16GB
Memory Voltage	▪ 1.2V

On-Board Devices

Chipset	▪ System on Chip
Audio	▪ ALC 888S HD Audio
Graphics	▪ Intel® HD Graphics
Network Controllers	▪ Single LAN with Intel® Ethernet Controller I210IT, ONLY i210 support PXE ▪ 3 LAN with 1GbE with Marvell® 88E1512

Input / Output

SATA	▪ 2 SATA3 (6Gbps) port(s)
LAN	▪ 4 RJ45 Gigabit Ethernet LAN ports
USB	▪ 2 USB 3.1 Gen2 port(s) (2 rear type A) ▪ 6 USB 2.0 port(s) (4 via header; 2 rear)
Video Output	▪ 1 VGA port(s), 1 DP (DisplayPort) port(s), 1 HDMI port(s), 1 eDP (Embedded DisplayPort) port(s)
Serial Port	▪ 4 COM Port(s) (4 header)
TPM	▪ 1 TPM Header & Chip both

Expansion Slots

PCI-E	▪ 1 PCI-E 3.0 X2 (in x8 slot)
M.2	▪ M.2 Interface: 1 SATA/PCI-E 3.0 x2/USB 3.0; 1 PCI-E 3.0 x1/USB 2.0 ▪ Form Factor: 3042/2280, 2230 ▪ Key: B-Key, E-Key

System BIOS

BIOS Type	▪ AMI UEFI
BIOS Features	▪ ACPI 6.2 or later ▪ UEFI 2.7 ▪ Plug and Play (PnP) ▪ SMBIOS 3.3 or later ▪ DMI 2.3 ▪ USB Keyboard support ▪ RTC (Real Time Clock) Wakeup

Management

Software	▪ SuperDoctor® 5, Watchdog
Power Configurations	▪ ACPI Power Management, +12V DC Power Input

PC Health Monitoring

Voltage	▪ VBAT, System temperature, System level control, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages
LED	▪ Standby alert LED ▪ CPU / System Overheat LED
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support
FAN	▪ Thermal control tachometer fan connectors, System level control, PWM fan speed control, Low noise fan speed control, Fan speed control, Dual Cooling Zone, Overheat LED indication
Other Features	▪ WOL, System level control, RoHS, CPU thermal trip support for processor protection, Chassis intrusion header, ATX Power connector, ACPI power management, 12V DC or ATX Power Source, 4-pin 12v DC power connector

Operating Environment

Operating Temperature Range	▪ -30°C - 70°C (-22°F - 158°F)
Non-Operating Temperature Range	▪ -40°C - 85°C (-40°F - 185°F)

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

**Non Operating
Relative
Humidity
Range** ■ 10% - 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-A3SEV-4C-LN4	1	A3SEV-4C-LN4 Motherboard
I/O Cables	CBL-0044L • eStore	1	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00058-0N	1	Standard I/O Shield for A2SAV with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-A3SEV-4C-LN4	1	A3SEV-4C-LN4 Motherboard
I/O Cables	CBL-0044L • eStore	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00058-0N	1	A3SEV standard 2U I/O Shield
QRG	MNL-2355-QRG	1	Motherboard Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00068-0B	1	1U I/O Shield for A3SEV with EMI Gasket in CS 505/504
Audio Cable	CBL-OTHR-0985	1	Audio Cable 30cm
COM Port Cable	CBL-CDAT-0685	1	COM Cable 30cm
SATA Cables	CBL-0044L • eStore	1	57.5CM SATA FLAT S-S PBF
SATA Power Cable	CBL-PWEX-0982	1	SATA Power Cable 25cm
USB Cable	CBL-CUSB-0983	1	USB2.0 cable 20cm

Chassis (Optimized for A3SEV-4C-LN4)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
				SC721TQ-350B	

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

Server (Optimized for A3SEV-4C-LN4)

Server Name
SYS-E302-12E

