

A3SEV-4C-LN4



Embedded
Quad 1GbE LAN
Quad Core

Key Features

- Intel® Atom® Processor x6425E
- Single Socket FCBGA-1493 supported, CPU TDP supports Up to 12W TDP
- Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots
- 1 PCIe 3.0 X2 (in x8 slot)
- 1 M.2 B-Key SATA/PCIe 3.0 x2/USB 3.0, 3042/2280
- 1 M.2 E-Key PCIe 3.0 x1/USB 2.0, 2230
- Single LAN with Intel® Ethernet Controller I210IT
- ONLY i210 support PXE
- 3 LAN with 1GbE with Marvell® 88E1512
- System on Chip
- 1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port or 1 eDP (Embedded DisplayPort) port, Supports 3 independent displays

Optimized Servers

[SYS-E302-12E \(/de/products/system/iot/compact/sys-e302-12e\).](#)

Specifications

Product SKUs MBD-A3SEV-4C-LN4
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 Unbuffered non-ECC SODIMM, DDR4-3200MHz Memory Type 3200 MT/s non-ECC DDR4 SODIMM Unbuffered 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 1 Intel® HD Graphics port(s) 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 PCIe 1 PCIe 3.0 X2 (in x8 slot) M.2 M.2 Interface: 1 SATA/PCIe 3.0 x2/USB 3.0; 1 PCIe 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

Standard Parts (Bulk Package)

I/O Cables	
Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html).
Qty	1
Description	57.5CM SATA FLAT S-S PBF
I/O Shield	
Part Number	MCP-260-00058-0N
Qty	1
Description	Standard I/O Shield for A2SAV with EMI Gasket

Standard Parts (Retail Package)

I/O Cables	
Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html).
Qty	2
Description	57.5CM SATA FLAT S-S PBF
I/O Shield	
Part Number	MCP-260-00058-0N
Qty	1
Description	A3SEV standard 2U I/O Shield
QRG	
Part Number	MNL-2355-QRG
Qty	1
Description	Motherboard Quick Reference Guide

Optional Parts

1U I/O Shield	
Part Number	MCP-260-00068-0B
Qty	1
Description	1U I/O Shield for A3SEV with EMI Gasket in CS 505/504
Audio Cable	
Part Number	CBL-OTHR-0985
Qty	1
Description	Audio Cable 30cm
COM Port Cable	
Part Number	CBL-CDAT-0685
Qty	1
Description	COM Cable 30cm
SATA Cables	
Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html).
Qty	1
Description	57.5CM SATA FLAT S-S PBF
SATA Power Cable	
Part Number	CBL-PWEX-0982
Qty	1
Description	SATA Power Cable 25cm
USB Cable	
Part Number	CBL-CUSB-0983
Qty	1
Description	USB2.0 cable 20cm