

A2SAV

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Embedded, Coming Soon

Key Features

1. Intel® Atom processor E3940, SoC, FCBGA 1296
2. Up to 8GB Unbuffered non-ECC DDR3-1866MHz SO-DIMM in 1 DIMM slot
3. Dual GbE LAN ports via Intel I210-AT
4. 1 PCI-E 2.0 x2 (in x8) slot
M.2 PCIe 2.0 x2, M Key 2242/2280
1 Mini-PCIe with mSATA
5. 2 SATA3 (6Gbps) via SoC,
4 SATA3 (6Gbps) via Marvel 88SE9230
6. 1 DP (DisplayPort), 1 HDMI, 1 VGA,
1 eDP (Embedded DisplayPort)
1 Intel® HD Graphics
7. 2 USB 3.0 (2 rear), 7 USB 2.0
(2 rear, 4 via headers, 1 Type A)
8. 3 COM ports (1 rear, 2 headers),
1 SuperDOM
9. 4-pin 12V DC power connector

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](#)

Specifications

Product SKUs

- MBD-A2SAV -O** ■ A2SAV (Retail Pack)
- MBD-A2SAV -B** ■ A2SAV (Bulk Pack)

Physical Stats

- Form Factor** ■ Mini-ITX
- Dimensions** ■ 6.75" x 6.75" (17.145cm x 17.145cm)

Processor/Cache

- CPU** ■ Intel® Atom™ Processor E3940
■ FCBGA 1296
■ System-on-Chip

System Memory

- Memory Capacity** ■ 1x 204-pin DDR3 SO-DIMM socket
- Memory Type** ■ 1866/1600/1333MHz Unbuffered non-ECC SO-DIMM DDR3, 204-pin gold-plated DIMMs
- DIMM Sizes** ■ 8GB, 4GB, 2GB
- Memory Voltage** ■ 1.5 V, 1.35 V

On-Board Devices

- SATA** ■ SoC controller for 2 SATA3 (6Gbps)
■ Marvel 88SE9230 controller for 4 SATA3 (6Gbps)
- Network Controllers** ■ Dual GbE LAN with Intel i210-AT controller
■ Virtual Machine Device Queues reduce I/O overhead
■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- Video** ■ Intel HD Graphics

Input / Output

- SATA** ■ 6 SATA3 (6Gbps) ports
- LAN** ■ 2 RJ45 Gigabit Ethernet LAN ports
- USB** ■ 2 USB 3.0 (2 rear)
■ 7 USB 2.0 (2 rear, 4 via headers, 1 Type A)
- COM Port** ■ 3 COM ports (1 rear, 2 headers)
1 in RJ45, 1 in RS232, and 1 in RS485
- DOM** ■ 1 SATA DOM (Disk on Module) power connector
- Video** ■ 1 VGA, 1 DP (Display Port), 1 HDMI, 1 eDP (Embedded Display Port), 1 Intel HD Graphics
- Others** ■ 4-pin 12V DC power connector

SuperServer(s) with A2SAV

- Model(s)** ■ [SYS-5029AP-TN2](#)

Chassis (Optimized for A2SAV)

- 1U Chassis** ■ [CSE-504-203B](#)
■ [CSE-505-203B](#)
- Mid/Mini-Tower Chassis** ■ [CSE-721TQ-250B](#)

Expansion Slots

- PCI-Express** ■ 1 PCI-E 2.0 x2 (in x8) slot
■ M.2 PCIe 2.0 x2, M Key 2242/2280
■ 1 Mini-PCIe with mSATA

System BIOS

- BIOS Type** ■ 64Mb SPI Flash EEPROM with AMI UEFI BIOS
- BIOS Features** ■ Plug and Play (PnP)
■ DMI 2.3
■ ACPI 5.0
■ USB Keyboard support
■ SMBIOS 2.7.1
■ UEFI

Management

- Software** ■ [SuperDoctor® 5](#)
■ Watch Dog
- Power Configurations** ■ ACPI Power Management
■ ATX Power connector
■ Control of power-on for recovery from AC power loss
■ CPU thermal trip support for processor protection

PC Health Monitoring

- Voltage** ■ Monitors for CPU Cores, +1.8V, +12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, System level control
- FAN** ■ Total of 2x 4-pin fan headers
■ 2x fans with tachometer status monitoring
■ Status monitor for speed control
■ Status monitor for on/off control
■ Low noise fan speed control
■ Pulse Width Modulated (PWM) fan connectors
- Temperature** ■ Monitoring for CPU and chassis environment
■ CPU thermal trip support
- LED** ■ System Overheat LED

Other	■ Chassis intrusion detection
Features	■ Chassis intrusion header

Operating Temperature

• 0°C to 60°C

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

Parts List

Parts List (Bulk Package)			
	Part Number	Qty	Description
Motherboard	MBD-A2SAV	1	A2SAV Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00058-0N	1	A2SAV standard 2U I/O Shield

Parts List (Retail Package)			
	Part Number	Qty	Description
Motherboard	MBD-A2SAV	1	A2SAV Motherboard
I/O Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00058-0N	1	A2SAV standard 2U I/O Shield

Optional Parts List			
	Part Number	Qty	Description
1U I/O Shield	MCP-260-00068-0B	1	1U I/O Shield for A2SAV with EMI Gasket in CSE-510/505/504