

## SuperServer E102-9AP-L



### Integrated Board



### Super A2SAN-L

Views: | [Angled View](#) | [Front View](#) | [Rear View](#) |

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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

#### Product SKUs

**SYS-E102-9AP-L**      ■ SuperServer E102-9AP-L (Black)

#### Motherboard

**Super A2SAN-L**

#### Processor/Cache

**CPU**      ■ Intel® Atom® Processor E3930  
 ■ Single Socket FCBGA 1296 supported  
 ■ CPU TDP support 6.5W

**Cores / Cache**      ■ 2 cores, 2 threads

#### System Memory

**Memory Capacity**      ■ Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM slot

**Memory Type**      ■ DDR3L up to 1866MHz (8GB)

**DIMM Sizes**      ■ 8GB, 4GB, 2GB

**Memory Voltage**      ■ 1.35V

#### On-Board Devices

**Chipset**      ■ System on Chip

**Network Controllers**      ■ Dual LAN with Intel® I210IT

**Audio**      ■ ALC 888S HD Audio

**Video**      ■ Intel® HD Graphics 620

#### Input / Output

**USB**      ■ 2 USB 3.0

**Video Output**      ■ 1 VGA port  
 ■ 1 HDMI port

**COM Port**      ■ 2 RS232, 2 RS232/422/485, RS-485 supports auto flow control (optional)

**Audio**      ■ 1 HD Audio header (Mic-in/Line-Out)

#### Key Features

##### - Embedded Applications

1. Intel® Atom® processor E3930 (6.5W, 2C)  
Single socket FCBGA 1296
2. System on Chip
3. 1 M.2 B-Key 2280, 1 Full size Mini-PCI-E
4. Up to 8GB unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 socket
5. Dual GbE LAN w/ Intel i210IT
6. 4 COM (RS-232/422/485), 2 USB 3.0
7. 1 VGA port, 1 HDMI port
8. Passive CPU heat sink and 1x 40mm chassis fans
9. Lockable 12V DC 40W power adapter

Chassis	
<b>Form Factor</b>	■ 3.5" SBC
<b>Model</b>	■ <b>CSE-E102</b>
Dimensions	
<b>Width</b>	■ 7.48" (190mm) / 11.81" (300mm) - pkg.
<b>Height</b>	■ 1.72" (44mm) / 5.12" (130mm) - pkg.
<b>Depth</b>	■ 4.72" (120mm) / 11" (279mm) - pkg.
<b>Weight</b>	■ Net Weight: 2.65 lbs (1.2 kg)
<b>Available Colors</b>	■ Black
Front Panel	
<b>Buttons</b>	■ Power On/Off button
<b>LEDs</b>	■ Power LED and Hard drive activity LED
Expansion Slots	
<b>PCI-Express</b>	■ 1 Full size Mini-PCIe (1 USB 2.0, 1 PCIe Gen2)
<b>M.2</b>	■ Interface: SATA, PCIe 2.0 x1 and USB 2.0 ■ Form Factor: B-Key 2280
Drive Bays	
<b>Internal</b>	■ 1 M.2 2280 B-Key for SATA or PCIe SSD (2242 can be supported with bracket) ■ 1 SATA 3.0 for 2.5" 7mm SATA HDD/SSD
System Cooling	
<b>Fans</b>	■ 1x 40mm chassis fan
<b>Heat Sink</b>	■ Passive CPU heat sink
Power Supply	
Lockable 12V DC 40W power adapter	
System BIOS	
<b>BIOS Type</b>	■ AMI UEFI
Management	
<b>Software</b>	■ <b>SuperDoctor® 5</b> ■ Watch Dog
<b>Power Configurations</b>	■ +12V DC Power Input ■ ACPI Power Management ■ Control of power-on for recovery from AC power loss ■ Force Power On by Jumper ■ CPU thermal trip support for processor protection
Operating Environment / Compliance	
<b>RoHS</b>	■ RoHS Compliant
<b>Environmental Spec.</b>	■ Operating Temperature: 0°C to 40°C (32°F to 104°F) ■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MDB-A2SAN-L	1	Super A2SAN-L Motherboard
	CSE-E102	1	Chassis for Embedded 3.5" SBC
<b>Power Adapter</b>	MCP-250-10135-0N	1	FSP 40W 12V 3.33A, AC to DC lockable power adapter,HF,RoHS

Optional Parts List			
	Part Number	Qty	Description
<b>Cable</b>	CBL-CUSB-1045	-	SERIAL, 2x DB9M TO 2X10F/P2.00,INT TO EXT,FLAT, 12CM, 28AWG
<b>Cable</b>	CBL-PWEX-0982	-	PWR EXT,1X4F/P2.50 TO SATA POWER, 25CM, 22AWG
<b>Cable</b>	CBL-SAST-0881	-	SATA,INT,6G,FLAT,ST-RA,25CM,30AWG,BLK,No Latch,RoHS
<b>Chassis parts</b>	MCP-160-10202-0B	-	CSE-E102 Optional FP mylar with 4x Comport opening only
<b>Chassis parts</b>	MCP-160-10203-0B	-	CSE-E102 Optional FP mylar with 4x comport and Audio port
<b>Chassis parts</b>	MCP-160-10204-0B	-	CSE-E102 Optional FP mylar with Audio port only
<b>Power Adapter</b>	MCP-250-10117-0N	-	60W DC power adapter with US power cord 18AWG 6ft
<b>Power Adapter</b>	MCP-250-10124-0N	-	AC to DC 40W lockable power adapter
<b>IO shield</b>	MCP-260-10202-0B	-	CSE-E102 I/O shield for X11SSN
<b>IO shield</b>	MCP-260-10201-0B	-	CSE-E102 I/O shield for A2SAN and X11SAN
<b>Chassis parts</b>	MCP-290-10113-0B	-	wall mount/VESA mount