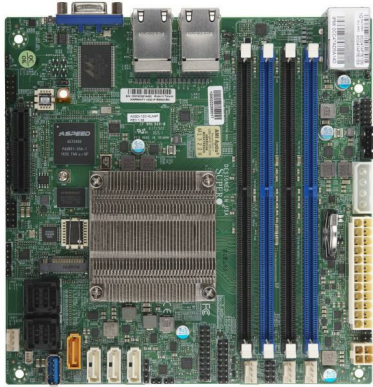


A2SDi-16C-HLN4F

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**16-Core Denverton
Quad 1GbE LAN
IPMI**

Key Features

1. Intel Atom Processor C3955, Single Socket FCBGA1310 supported, CPU TDP support 32W
2. System on Chip
3. Up to 256GB Registered ECC DDR4-2400MHz, Up to 64GB Unbuffered ECC/Non-ECC DDR4-2400MHz; in 4 DIMM slots
4. Expansion slots:
1 PCI-E 3.0 x4,
M.2 Interface: PCI-E 3.0 x2 and SATA
M.2 Form Factor: 2242, 2280
M.2 Key: M-Key
5. 4 GbE LAN ports
6. 12 SATA3 (6 Gbps) ports
7. I/O: 1 VGA, 1 COM, TPM header
8. 1 USB 3.0 (Type-A)
4 USB 2.0 (2 rear, 2 via headers)
9. Supports 12V DC power input

Links & Resources

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

Specifications

Product SKUs	
MBD-A2SDi-16C-HLN4F	■ A2SDi-16C-HLN4F
Physical Stats	
Form Factor	■ Mini-ITX
Dimensions	■ 6.7" x 6.7" (17.02cm x 17.02cm)
Processor/Cache	
CPU	■ Intel® Atom™ Processor C3955. ■ Single Socket FCBGA1310 supported, CPU TDP support 32W
Cores / Cache	■ 16 cores, 16 threads / 16MB cache
System Memory	
Memory Capacity	■ Up to 256GB Registered ECC RDIMM and DDR4-2400MHz ■ Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots
Memory Type	■ 2400/2133/1866/1600MHz
DIMM Sizes	■ 4GB, 8GB, 16GB, 32GB, 64GB
Memory Voltage	■ 1.2V
Error Detection	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	■ System on Chip
SATA	■ SoC controller for 12 SATA3 (6 Gbps) ports;
IPMI	■ ASPEED AST2400 BMC
Network Controllers	■ Quad LAN with Intel® C3000 SoC 1GbE
Graphics	■ Aspeed AST2400 BMC
Input / Output	
LAN	■ 4 RJ45 Gigabit Ethernet LAN ports
USB	■ 4 USB 2.0 ports (2 rear + 2 headers), ■ 1 USB 3.0 ports (+ 1 Type A)
Video Output	■ 1 VGA port
Serial Port / Header	■ 1 COM Port (1 header)

Expansion Slots	
PCI-E	■ 1 PCI-E 3.0 x4
M.2	■ Interface: PCI-E 3.0 x2 and SATA ■ Form Factor: M-Key 2242, 2280
System BIOS	
BIOS Type	■ AMI UEFI
BIOS Features	■ UEFI 2.4 ■ SMBIOS 2.7.1
Management	
Software	■ IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog
Power Configurations	■ ATX Power connector ■ +12V DC Power Input ■ CPU thermal trip support for processor protection ■ Power-on mode for AC power recovery
PC Health Monitoring	
Voltage	■ +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 4 -fan status, 4 fans with tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT
FAN	■ 4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors
Temperature	■ CPU thermal trip support
LED	■ UID/Remote UID
Other Features	■ 12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL
Operating Environment	
Operating	

Temperature Range	■ 0°C ~ 60°C (32°F ~ 140°F)
Non-Operating Temperature Range	■ -40°C - 85°C (-40°F - 185°F)
Operating Relative Humidity Range	■ 10% ~ 85% (non-condensing)
Non-Operating Relative Humidity Range	■ 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-A2SDi-16C-HLN4F	1	A2SDi-16C-HLN4F Motherboard
SATA Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00084-0N	1	Standard I/O Shield for A2SDi-16C-HLN4F

Parts List (Retail Package)

Name	Part Number	Qty	Description
Motherboard	MBD-A2SDi-16C-HLN4F	1	A2SDi-16C-HLN4F Motherboard
QRG	MNL-1951-QRG	1	Motherboard Quick Reference Guide
SATA Cables	CBL-0044L	4	57.5CM SATA FLAT S-S PBF
SATA Cables	CBL-SAST-0616	2	MINI SAS HD-4 SATA, INT, 50CM, 50CM SB, 30AWG
I/O Shield	MCP-260-00084-0N	1	Standard I/O Shield for A2SDi-16C-HLN4F

Optional Parts List

Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00085-0B	--	1U I/O Shield for A2SDi-16C-HLN4F in SC505/504 Chassis
1U I/O Shield	MCP-260-00079-0N	--	1U I/O Shield for A2SDi-16C-HLN4F in SC813/512 Chassis

Chassis (Optimized for A2SDi-16C-HLN4F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SCE300 SC504-203B SC505-203B				

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

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