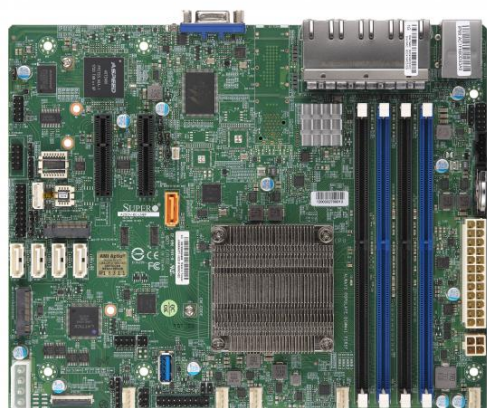


Links & Resources



8-Core Denverton Eight 1GbE RJ45 Intel® Quick Assist Technology

Key Features

1. Intel® Atom® Processor C3758,
Single Socket FCBGA 1310 supported,
CPU TDP support 25W
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 (Slot 6 or 7 option)
5. M.2 Interfaces:
1 M-Key 2242/80 supports PCI-E 3.0 x2/SATA
1 B-Key 3042/2280 supports PCI-E 3.0 x2/SATA/USB
6. 8x 1GbE RJ45 LAN ports
7. 5 SATA3 (6 Gbps) ports
8. I/O: 1 VGA, 1 COM (1 via header), TPM header
9. 3 USB 3.0 (2 rear, Type-A)
2 USB 2.0 (2 via headers)
10. Intel Quick Assist Technology
11. Supports 12V DC power input

[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](#)

[Optimization](#)

Specifications

Product SKUs

- MBD-A2SDV-8C-LN8F
- A2SDV-8C-LN8F

Physical Stats

- **Form Factor** Flex ATX

- **Dimensions** 9" x 7.25" (22.86cm x 18.42cm)

Processor/Cache

- **CPU** Intel® Atom® Processor C3758.
Single Socket FCBGA1310 supported, CPU TDP support 25W

- **Cores / Cache** 8 cores, 8 threads / 16MB cache

System Memory

- **Memory Capacity** Up to 256GB Registered ECC RDIMM, 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 5 SATA3 (6 Gbps) ports;

- **IPMI** ASPEED AST2400 BMC

- **Network Controllers** Quad LAN with Intel® C3000 SoC
Quad LAN with Intel® Ethernet Controller I350-AM4

- **Graphics** Aspeed AST2400 BMC

Input / Output

- **LAN** 8 RJ45 Gigabit Ethernet LAN ports
1 RJ45 Dedicated IPMI LAN port

- **USB** 2 USB 2.0 ports (2 headers),
3 USB 3.0 ports (2 rear + 1 Type A)

- **Video Output** 1 VGA port

- **Serial Port / Header** 1 COM Port (1 header)

- **TPM** TPM Header

Expansion Slots

- **PCI-E** 1 PCI-E 3.0 x4
Option for Slot 6 or Slot 7

- **M.2** 1 M.2 M-Key SATA/PCI-E 3.0 x2, 2242/2280
1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 3042/2280

System BIOS

- **BIOS Type** AMI UEFI

- **BIOS Features** UEFI 2.4
SMBIOS 2.7.1

Management

- **Software** IPMI2.0, 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, 5 -fan status, Chassis intrusion header, VBAT

- **FAN** 5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control

- **Temperature** CPU thermal trip support

- **LED** UID/Remote UID

- **Other Features** 4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, UID

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)


Parts List


Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-A2SDV-8C-LN8F	1	A2SDV-8C-LN8F Motherboard
SATA Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00133-0N	1	Standard I/O Shield for A2SDV-LN8F/LN10PF

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-A2SDV-8C-LN8F	1	A2SDV-8C-LN8F Motherboard
QRG	MNL-2113-QRG	1	Motherboard Quick Reference Guide
SATA Cables	CBL-0044L	5	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00133-0N	1	Standard I/O Shield for A2SDV-LN8F/LN10PF
Plastic Standoff	FST-SCRW-0010	1	Stand Off, H=3MM

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00135-0B	--	1U I/O Shield for A2SDV-LN8F/LN10PF in SC510/505/504 Chassis
1U I/O Shield	MCP-260-00134-0N	--	1U I/O Shield for A2SDV-LN8F/LN10PF in SC813/512 Chassis

Chassis (Optimized for A2SDV-8C-LN8F)

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

 = Most optimized Chassis for SuperServer Configuration
 Blue color = Compatible
 Green color = Global SKU & Compatible
 Red dot & green color = Optimized + Global SKU

Server (Optimized for A2SDV-8C-LN8F)

Server Name
<u>SYS-E300-9A-8CN8</u>