

A1SAi-2550F

Products ▶ Motherboards ▶ Atom Boards ▶ [A1SAi-2550E]



Key Features

1. Intel® Atom processor C2550, SoC, FCBGA 1283, 14W 4-Core
2. Up to 64GB DDR3 1600MHz ECC SO-DIMM in 4 DIMM slots
3. Quad GbE LAN ports
4. IPMI with dedicated LAN
5. 2x SATA3 and 4x SATA2 ports
6. 1x PCI-E 2.0 x8 slot
7. 4x USB 3.0 (2 rear, 1 via header, 1 Type A), 2x USB 2.0 ports (rear)
8. 12V DC or ATX power input
9. Operating Temperature: 0°C - 60°C

Links & Resources

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

Specifications

Product SKUs

MBD-A1SAi-2550F -O	■ A1SAi-2550F (Retail Pack)
MBD-A1SAi-2550F -R	■ A1SAi-2550F (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 C2550 - CPU TDP 14W (4-Core) - FCBGA 1283 - System-on-Chip
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System Memory

Memory Capacity	4x 204-pin DDR3 SO-DIMM slot - Supports up to 64GB DDR3 ECC Un-Buffered memory
Memory Type	1600/1333MHz ECC DDR3 SDRAM, 204-pin gold-plated DIMMs
DIMM Sizes	16GB, 8GB, 4GB, 2GB
Memory Voltage	1.5 V, 1.35 V

On-Board Devices

SATA	▪ C2000 SoC SATA3 (6Gbps), SATA2 (3Gbps)
Network Controllers	▪ C2000 SoC I354 Quad GbE controllers (MACs) ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
USB 3.0	▪ Renesas uPD720201
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Aspeed AST 2400 BMC
Video	▪ BMC integrated Aspeed AST2400

Input / Output

Serial ATA	2x SATA3 (6Gbps) ports 4x SATA2 (3Gbps) ports
LAN	4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	4x USB 3.0 ports (2 rear, 1 Type A, 1 via header) 2x USB 2.0 ports (2 rear)
Serial Port	2x Fast UART 16550 Serial Port (1 rear, 1 via header)
DOM	1x SATA DOM (Disk on Module) power connector
VGA	1x VGA Port
Others	- TPM 1.2 header 4-pin 12V DC power input or 24-pin ATX Power input

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-A1SAI-2550F -B	1	A1SAI-2550F Motherboard with passive heatsink
I/O Shield	MCP-260-00042-0N	1	X9 standard I/O Shield
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF

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