

SuperServer 5018A-MLHN4



Integrated Board



A1SAM-2550F

Key Features

- Low-power 4-Core Atom Avoton System on Chip Solution
- Space-efficient, compact design
- Fast to build and deploy
- Gateway, file-sharing, security

1. Intel® Atom processor C2550, SoC, FCBGA 1283, 14W 4-Core
2. Intel® System-on-Chip Design
3. 4x 3.5" SATA HDD Bays
4. 1x PCI-E 2.0 x8 slot
5. Up to 64GB DDR3 1600MHz ECC or non-ECC UDIMM in 4 DIMM slots
6. Quad GbE ports, IPMI w/ dedicated LAN
7. DOM power connector
8. 200W Low-noise power supply w/ PFC



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

Specifications

Product SKUs

- SYS-5018A-MLHN4
- SuperServer 5018A-MLHN4 (Black)

Motherboard

Super A1SAM-2550F

Processor/Cache

- CPU
- Intel® Atom™ Processor C2550
 - CPU TDP 14W (4-Core)
 - FCBGA 1283
 - System-on-Chip

System Memory

- Memory Capacity
- 4x 240-pin DDR3 UDIMM sockets
 - Supports up to 64GB DDR3 ECC memory

Chassis

- Form Factor
- 1U Rackmount
- Model
- CSE-813MTQ-202CB

Dimensions and Weight

- Height
- 1.7" (43mm)
- Width
- 17.2" (437mm)
- Depth
- 19.8" (503mm)
- Weight
- Net Weight: 8 lbs (3.62 kg)
 - Gross Weight: 31 lbs (14.1 kg)
- Available Colors
- Black

Front Panel

- Buttons
- Power On/Off button
 - System Reset button

Memory Type	<ul style="list-style-type: none"> 1600/1333MHz ECC or non-ECC UDIMM SDRAM, 240-pin gold-plated DIMMs, x8 width only
DIMM Sizes	<ul style="list-style-type: none"> 16GB, 8GB, 4GB, 2GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

SATA	<ul style="list-style-type: none"> C2000 SoC SATA3 (6Gbps), SATA2 (3Gbps)
Network Controllers	<ul style="list-style-type: none"> 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 2.0	<ul style="list-style-type: none"> C2000 SoC
IPMI	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> BMC integrated ASPEED AST2400

Input / Output

Serial ATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 4x SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 7x USB 2.0 ports (4 rear, 1 Type A, 2 via header)
Serial Port	<ul style="list-style-type: none"> 2x Fast UART 16550 Serial Port (1 rear, 1 via header)
DOM	<ul style="list-style-type: none"> 1x SATA DOM (Disk on Module) power connector
VGA	<ul style="list-style-type: none"> 1x VGA Port
Others	<ul style="list-style-type: none"> TPM 1.2 header

LEDs	<ul style="list-style-type: none"> Power LED Hard drive activity LED 2x Network activity LEDs System Overheat LED
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Expansion Slots

PCI-E	<ul style="list-style-type: none"> 1x PCI-E 2.0 x8 slot via riser
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Drive Bays

HDD	<ul style="list-style-type: none"> 4x 3.5" Hot-swap SATA2 hard drive bays
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Power Supply

200W Low Noise AC-DC power supply with PFC	
AC Voltage	<ul style="list-style-type: none"> 100 - 240V, 50-60Hz, 3-1.5 Amp Max
+5V	<ul style="list-style-type: none"> 16.0 Amp
+5V standby	<ul style="list-style-type: none"> 2.0 Amp
+12V	<ul style="list-style-type: none"> 15.0 Amp
-12V	<ul style="list-style-type: none"> 0.8 Amp
+3.3V	<ul style="list-style-type: none"> 17.0 Amp

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) DMI 2.3 ACPI 5.0 USB Keyboard support SMBIOS 2.7.1 UEFI

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A1SAM-2550F	1	Super A1SAM-2550F Motherboard
	CSE-813MTQ-202CB	1	1U Chassis
Backplane	BPN-SAS-815TQ	1	Sup 4x SAS/SATA;SATA con
Cable 1	CBL-0180L-01	1	SET OF 4 SATA 70/59/48/38CM ROUND S-RA, 26AWG
Manual	MNL-1580-QRG	1	CSE-813MTQ-202CB, A1SAM-2550F
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
Power Supply	PWS-202-1H	1	200W,1U W/ STANDARD HARNESS OUTPUT LC