

SuperServer 5018A-FTN4



Integrated Board



[A1SRi-2758F](#)

Key Features

- Front I/O
- Space-efficient, compact design
- Fast to build and deploy
- Gateway, file-sharing, security

1. Intel® Atom processor C2758, SoC, FCBGA 1283, 20W 8-Core
2. Intel® System-on-Chip Design
3. 2x 3.5" Fixed SATA3 HDD bays or 4x 2.5" SATA2 HDD optional*
4. 1x PCI-E 2.0 x8 slot**
5. Up to 64GB DDR3 1600MHz ECC SO-DIMM in 4 DIMM slots
6. Quad GbE ports, IPMI w/ dedicated LAN
7. DOM power connector
8. 200W Low-noise power supply w/ PFC
9. Support Intel® QuickAssist Acceleration Technology



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-FTN4 ■ SuperServer 5018A-FTN4 (Black)

Motherboard

[Super A1SRi-2758F](#)

Processor/Cache

- CPU ■ Intel® Atom™ Processor C2758
 ■ CPU TDP 20W (8-Core)
 ■ FCBGA 1283
 ■ System-on-Chip

System Memory

- Memory ■ 4x 204-pin DDR3 SO-DIMM slots

Chassis

- Form Factor ■ 1U Rackmount
 Model ■ [CSE-505-203B](#)

Dimensions and Weight

- Height ■ 1.7" (43mm)
 Width ■ 17.2" (437mm)
 Depth ■ 9.8" (249mm)
 Weight ■ Net Weight: 8 lbs (3.62 kg)
 ■ Gross Weight: 12 lbs (5.44 kg)
 Available Colors ■ Black

Front Panel

- Power On/Off button

Capacity	<ul style="list-style-type: none"> Supports up to 64GB DDR3 ECC memory
Memory Type	<ul style="list-style-type: none"> 1600/1333MHz ECC DDR3 SDRAM 72-bit, 204-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 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"> SoC SATA3 (6Gbps), SATA2 (3Gbps)
Network Controllers	<ul style="list-style-type: none"> C2000 SoC I354 Quad GbE Controller (MACs) Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
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
Graphics	<ul style="list-style-type: none"> BMC integrated ASPEED AST2400
USB 3.0	<ul style="list-style-type: none"> Renesas uPD720201

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"> 4x USB 3.0 ports (2 rear, 1 Type A, 1 via header) 2x USB 2.0 ports (2 rear)
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

Buttons	<ul style="list-style-type: none"> System Reset button
LEDs	<ul style="list-style-type: none"> Power LED Hard drive activity LED 2x Network activity LEDs System Overheat LED Information LED (temp., status)

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"> 2x 3.5" or 4x 2.5" internal SATA2 hard drive bays (optional) *
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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, 2.6 Amp Max
+5V	<ul style="list-style-type: none"> 8.0 Amp (max.)
+5V standby	<ul style="list-style-type: none"> 2.0 Amp (max.)
+12V	<ul style="list-style-type: none"> 16 Amp (max.)
-12V	<ul style="list-style-type: none"> 0.5 Amp (max.)
+3.3V	<ul style="list-style-type: none"> 8.0 Amp (max.)

Certification



Gold Certified

System BIOS

BIOS Type	<ul style="list-style-type: none"> 64Mb 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-A1SRI-2758F	1	Super A1SRI-2758F Motherboard
	CSE-505-203B	1	1U Chassis
Cable 1	CBL-0061L	1	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
Parts	MCP-120-00063-0N	1	Riser card bracket for slot-7 in SC504
Manual	MNL-1565-QRG	1	SYS-5018A-FTN4 ,QRG,HF,RoHS/REACH,PBF
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
Fan	FAN-0100L4	1	40X28MM 4-PIN PWM FAN FOR SC510 & SC511
Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

Optional Parts List

	Part Number	Qty	Description
HDD Bracket	MCP-220-00044-0N	-	Dual 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U
HDD Bracket	MCP-220-00051-0N	-	Single 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U

* 1x 3.5" or 2x 2.5" SATA2 with riser card

** Add-on card compatibility dependent on number of drives/brackets installed + height of card components