

# SuperServer 5019A-FTN4



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## Key Features

- Network Security Appliance
- Edge Computing Server
- Virtualization Server

1. Intel® Atom® processor C3758, Single socket FCBGA 1310; 8-Core, TDP 25W
2. 2x 3.5" or 4x 2.5" internal drive bays
3. 1 PCI-E 3.0 x4, 1 M.2 (M key for SSD, 2242/2280, PCI-E 3.0 x2 or SATA3)
4. Up to 256GB ECC RDIMM DDR4 2400MHz or 64GB ECC/non-ECC UDIMM in 4 DIMM slots
5. 4 1GbE LAN, 1 dedicated IPMI LAN
6. 2 USB 2.0, 1 VGA, 1 SuperDOM, TPM
7. 2x 40x28mm 4-pin PWM fans, optional 1x 40x28mm 4-pin fan
8. 200W Low-noise AC-DC power supply

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

## Specifications

Product SKUs	
SYS-5019A-FTN4	▪ SuperServer 5019A-FTN4 (Black)
Motherboard	
<u>Super A2SDi-8C-HLN4F</u>	
Processor/Cache	
CPU	<ul style="list-style-type: none"> <li>▪ Intel® Atom® processor C3758</li> <li>▪ FCBGA 1310 supported</li> <li>▪ CPU TDP support 25W</li> </ul>
System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>▪ 4x DDR4 DIMM sockets</li> <li>▪ Supports up to 256GB DDR4 ECC RDIMM</li> <li>▪ Supports up to 64GB DDR4 ECC/non-ECC UDIMM</li> </ul>
Memory Type	▪ 2400/2133/1866/1600MHz ECC DDR4 SDRAM
DIMM Sizes	▪ 64GB, 32GB, 16GB, 8GB, 4GB
Memory Voltage	▪ 1.2 V

Chassis	
Form Factor	▪ 1U Rackmount
Model	▪ <u>CSE-505-203B</u>
Dimensions and Weight	
Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 9.8" (249mm)
Weight	<ul style="list-style-type: none"> <li>▪ Net Weight: 8 lbs (3.62 kg)</li> <li>▪ Gross Weight: 12 lbs (5.44 kg)</li> </ul>
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power LED</li> <li>▪ Hard drive activity LED</li> <li>▪ Network activity LEDs</li> <li>▪ System Overheat LED</li> <li>▪ Information LED (temp., status)</li> </ul>
Expansion Slots	
PCI-E	▪ 1 PCI-E 3.0 x4 slot

Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>
<b>On-Board Devices</b>	
SATA	<ul style="list-style-type: none"> <li>SoC controller for 4 SATA3 (6Gbps) ports</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Quad Gigabit Ethernet LAN via Intel® C3000 SoC</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1 Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>BMC integrated ASPEED AST2400</li> </ul>
<b>Input / Output</b>	
SATA	<ul style="list-style-type: none"> <li>4 SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>4 RJ45 Gigabit Ethernet LAN ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>2 USB 2.0 ports (rear)</li> </ul>
Serial Port	<ul style="list-style-type: none"> <li>1 COM port (header)</li> </ul>
DOM	<ul style="list-style-type: none"> <li>1 SATA DOM (Disk on Module) power connector</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1 VGA Port</li> </ul>
Others	<ul style="list-style-type: none"> <li>TPM header</li> </ul>

	<ul style="list-style-type: none"> <li>1 M.2 PCI-E 3.0 x2, M Key 2242/2280</li> </ul>
<b>Drive Bays</b>	
HDD	<ul style="list-style-type: none"> <li>2x 3.5" or 4x 2.5" internal hard drive bays (optional) *</li> </ul>
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>2x 40x28mm 4-PIN PWM Fan, Optional</li> <li>1x 40x28mm 4-PIN PWM Fan</li> </ul>
<b>Power Supply</b>	
200W Low Noise AC-DC power supply with PFC	
AC Voltage	<ul style="list-style-type: none"> <li>100 - 240V, 50-60Hz, 2.6 Amp Max</li> </ul>
+5V	<ul style="list-style-type: none"> <li>8.0 Amp (max.)</li> </ul>
+5V standby	<ul style="list-style-type: none"> <li>2.0 Amp (max.)</li> </ul>
+12V	<ul style="list-style-type: none"> <li>16 Amp (max.)</li> </ul>
-12V	<ul style="list-style-type: none"> <li>0.5 Amp (max.)</li> </ul>
+3.3V	<ul style="list-style-type: none"> <li>8.0 Amp (max.)</li> </ul>
Certification	 Gold Certified
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>AMI UEFI BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>DMI 2.3</li> <li>ACPI 5.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI</li> </ul>
<b>Operating Environment / Compliance</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 0°C to 40°C (32°F to 104°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SDi-8C-HLN4F	1	Super A2SDi-8C-HLN4F Motherboard
	CSE-505-203B	1	1U Chassis
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
FAN 1	FAN-0065L4	2	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
Drive Tray(s)	MCP-220-00051-0N	2	Single 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U
Rear Window	MCP-240-00091-0N	2	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF
Parts	MCP-260-00085-0B	1	1U I/O Shield for A1SRM-LN7F on SC510 with EMI Gasket,RoHS/REACH
Fan Holder	MCP-320-81302-0B	3	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)
Parts	MCP-340-00001-01	1	Dummy fan 40x28mm

Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8
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
Rack Mount Kit	MCP-290-50404-0N	-	Rack Mount Kit for CSE-504-203B
SuperDOM	-	-	Supermicro SATA DOM Solutions [ <a href="#">Details</a> ]

[Hide Parts List](#)

\* 1x 3.5" or 2x 2.5" SATA3 with riser card