

# SuperServer 5019A-FN5T



Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Tested M.2 List](#) | [Manuals](#) | [Quick-References Guide](#) | [Drive Options](#)

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



## Key Applications

- Network Security Appliance
- Edge Computing
- Network Function Virtualization
- Retailer Application

## Key Features

- Intel® Atom® processor C3958, Single socket FCBGA 1310; 16-Core, TDP 31W
- 1x 3.5" or 2x 2.5" internal drive bays
- 1 PCI-E 3.0 x8, 1 M-Key 2242/2280, PCI-E 3.0 x2/SATA, 1 B-Key 3042/2280, PCI-E 3.0 x2/SATA/USB
- Up to 256GB ECC RDIMM DDR4 2400MHz or 64GB ECC/non-ECC UDIMM in 4 DIMM slots
- 4x 10GbE LAN, 1x 1GbE LAN (IPMI shared LAN)
- USB 3.0 (4 front Type-A), 1 VGA, 1 SuperDOM, TPM
- 3x 40x28mm 4-pin PWM fans
- 200W Low-noise AC-DC power supply
- Intel® Quick Assist Technology

## Specifications ^

### Product SKUs

**SYS-5019A-FN5T** SuperServer 5019A-FN5T (Black)

### Motherboard

**Super A2SDV-16C-TLN5F**

### Processor

**CPU** Intel® Atom® processor C3958  
FCBGA 1310 supported  
CPU TDP support 31W

### System Memory

**Memory Capacity** 4x DDR4 DIMM sockets  
Supports up to 256GB DDR4 ECC RDIMM  
Supports up to 64GB DDR4 ECC/non-ECC UDIMM

**Memory Type** 2400/2133/1866/1600MHz ECC DDR4 SDRAM

**DIMM Sizes** 64GB, 32GB, 16GB, 8GB, 4GB

**Memory Voltage** 1.2 V

**Error Detection** Corrects single-bit errors  
Detects double-bit errors (using ECC memory)

### On-Board Devices

**SATA** SoC controller for 2 SATA3 (6Gbps) ports

**Network Controllers** Quad 10GBase-T LAN with Intel® X557  
Single Gigabit Ethernet LAN with Intel® i210

**IPMI** Aspeed AST2400 BMC

**Graphics** Aspeed AST2400 integrated VGA

### Input / Output

**SATA** 2 SATA3 (6Gbps) ports

**LAN** 4x 10GbE LAN ports  
1x 1GbE LAN (IPMI shared LAN)

**USB** 5 USB 3.0 (4 rear, Type-A)  
2 USB 2.0 (2 via headers)

**Serial Port** 1 COM via RJ45

**DOM** 1 SATA DOM (Disk on Module) power connector

**VGA** 1 VGA Port

**Others** TPM header

### 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

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

**LEDs** Power LED  
Hard drive activity LED  
Network activity LEDs  
System Information LED  
Information LED (temp., status)

### Expansion Slots

**PCI-E** 1 PCI-E 3.0 x8  
1 M-Key 2242/2280 , PCI-E 3.0 x2/SATA  
1 B-Key 3042/2280 PCI-E 3.0 x2/SATA/USB

### Drive Bays

**HDD** 1x 3.5" or 2x 2.5" internal hard drive bays

### System Cooling

**Fans** 3x 40x28mm 4-PIN PWM Fan (FAN-0065L4, 13K RPM)

### Power Supply

200W Low Noise AC-DC power supply with PFC

**AC Voltage** 100 - 240V, 50-60Hz, 2.6 Amp Max

**+5V** 8.0 Amp (max.)

**+5V standby** 2.0 Amp (max.)

**+12V** 16 Amp (max.)

**-12V** 0.5 Amp (max.)

**+3.3V** 8.0 Amp (max.)

**Certification** **Gold Certified**

### System BIOS

**BIOS Type** AMI UEFI BIOS

**BIOS Features** UEFI 2.4  
SMBIOS 2.7.1

### Operating Environment / Compliance

**RoHS** RoHS Compliant

**Environmental Spec.** Operating Temperature:  
0°C to 40°C (32°F to 104°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
<b>Motherboard / Chassis</b>	MBD-A2SDV-16C-TLN5F	1	Super A2SDV-16C-TLN5F Motherboard
	CSE-505-203B	1	1U Chassis
<b>FAN 1</b>	FAN-0065L4	3	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
<b>Rear Window</b>	MCP-240-00091-0N	2	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF
<b>Parts</b>	MCP-260-00135-0B	1	1U 504/505/510 I/O Shield for A2SDV-LN10PF with EMI Gasket
<b>Fan Holder</b>	MCP-320-81302-0B	3	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Power Supply</b>	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

### Optional Parts List

	Part Number	Qty	Description
<b>HDD Bracket</b>	MCP-220-00051-0N	-	Single 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U
<b>SuperDOM</b>	-	-	Supermicro SATA DOM Solutions <a href="#">[Details]</a>

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