

SuperServer 5039AD-I



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Key Features

- High-end Desktop
- Extreme Gaming
- High-performance computing
- Simulation and Creation Design

1. Single socket R4 supports Intel® Core™ i9/i7/i5 X-Series, and Intel® Core™ i9 Extreme X-Series Processors
2. Intel® X299 chipset
3. Up to 128GB Non-ECC UDIMM, DDR4-2666MHz, in 8 DIMM slots
4. 4 PCI-E 3.0 x16; 1 PCI-E 3.0 x4, 2 M.2 M key with Intel® Optane™ support, and 2 U.2
5. 6 SATA3 (6 Gbps) ports; RAID 0, 1, 5, 10
6. 5G LAN and 1GbE LAN
7. 6 fixed 3.5" and 4 fixed 2.5" drive bays
2 standard 5.25" drive bays
8. 1 VGA, ALC 1220 7.1 HD Audio
9. 2x 12cm front cooling fan;
1x 12cm rear exhaust fan
10. 750W Multi-output 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	
SuperServer	▪ SYS-5039AD-I (Black)
Motherboard	
	Super C9X299-PGF
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Single socket R4 (LGA 2066) supported, CPU TDP support up to 165W ▪ Intel® Core™ i9/i7/i5 X-Series, and Intel® Core™ i9 Extreme X-Series Processors
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 8x 288-pin DDR4 DIMM slots ▪ Supports up to 128GB DDR4 Non-ECC Un-Buffered memory (UDIMM)
Memory Type	▪ 2666/2400/2133/1866/1600MHz Non-ECC DDR4 288-pin UDIMM
DIMM Sizes	▪ 16GB, 8GB, 4GB

Chassis	
Form Factor	▪ Mid-Tower
Model	▪ CSE-GS5A-753R
Dimensions and Weight	
Height	▪ 18.1" (460mm)
Width	▪ 7.9" (201mm)
Depth	▪ 19.4" (493mm)
Package	▪ 24.9" (H) x 14.2" (W) x 24.0" (D)
Weight	<ul style="list-style-type: none"> ▪ Net Weight: 22.27 lbs (10.1 kg) ▪ Gross Weight: 28.22 lbs (12.8 kg)
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off Button ▪ Reset Button
LEDs	<ul style="list-style-type: none"> ▪ Power LED ▪ Hard drive activity LED

Memory Voltage	<ul style="list-style-type: none"> 1.2V
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On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® X299 Chipset
SATA	<ul style="list-style-type: none"> SATA3 via PCH w/ RAID 0, 1, 5, 10
IPMI	<ul style="list-style-type: none"> ASPEED AST2500
Network Controllers	<ul style="list-style-type: none"> Single LAN with Intel® Ethernet Controller I210-AT, shared IPMI port Single LAN with Aquantia 5G LAN chip AQC108
Audio	<ul style="list-style-type: none"> ALC 1220 7.1 HD Audio

Input / Output

SATA	<ul style="list-style-type: none"> 6 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet LAN ports
USB	<ul style="list-style-type: none"> 4 USB 3.0 ports (2 rear + 2 front) 4 USB 3.1 ports (rear, 3 Type A + 1 Type C)
Display	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1 COM Port (1 header)

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 4 PCI-E 3.0 x16 slots 1 PCI-E 3.0 x1 slot *** 4 PCI-E 3.0 x16 slots (8/NA/16/16 or 8/8/8/16 or NA/4/8/16 (Skylake-X 28 Lanes) or NA/4/4/8 (Kabylake-X), 1 PCI-E 3.0 x1 slot ***
M.2	<ul style="list-style-type: none"> M.2 Interface: 2 PCI-E 3.0 x4 Form Factor: 22110/2280 Key: M-Key (RAID 0, 1 support) M-Key for SSD and Optane
U.2	<ul style="list-style-type: none"> U.2 Interface: PCI-E 3.0 x4 (for Skylake-X only)

System BIOS

BIOS Type	<ul style="list-style-type: none"> UEFI 128Mb
BIOS Features	<ul style="list-style-type: none"> ACPI 3.0 or later SMBIOS 2.7 or later BIOS rescue hot-key SPI dual/quad speed support Overclock support

Ports	<ul style="list-style-type: none"> 2 USB 3.0 ports 1 Earphone, 1 Microphone port
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Drive Bays

Fixed	<ul style="list-style-type: none"> 6 fixed 3.5" drive bays 4 fixed 2.5" drive bays
Peripheral	<ul style="list-style-type: none"> 2 standard 5.25" drive bays

System Cooling

Fans	<ul style="list-style-type: none"> 2x 12cm front cooling fans 1x 12cm rear exhaust fan
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Power Supply

750W Multi-output Power Supply for Desktop, semi-modular cable output

AC Input	<ul style="list-style-type: none"> 100-240Vac, 50-60Hz
+5V	<ul style="list-style-type: none"> Max: 20A & Min: 0A
+12V	<ul style="list-style-type: none"> Max: 62A & Min: 0.1A (100Vac-240Vac)
+3.3V	<ul style="list-style-type: none"> Max: 20A & Min: 0A
+5V SB	<ul style="list-style-type: none"> Max: 2.5A & Min: 0A
-12V	<ul style="list-style-type: none"> Max: 0.3A

Certification  [Gold Certified](#)

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT
FAN	<ul style="list-style-type: none"> 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors
Other Features	<ul style="list-style-type: none"> ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel Smart Response Technology, Voltage and Frequency Overclocking, WOL

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-C9X299-PGF	1	Super C9X299-PGF Motherboard
	CSE-GS5A-753R	1	3U Mid-Tower Chassis
Cable 1	CBL-0044L	2	SATA,INT,FLAT,57.7CM,26AWG
Manual	MNL-2000-QRG	1	5039AD-I Quick Reference Guide
Parts	MCP-260-00117-0N	1	
Power Supply	PWS-753-PQ	1	[DESKTOP ONLY], PS2/ATX 750W Multi-output Power supply with modular cable 80Plus Gold, RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Fan	FAN-0077L4	-	120X38MM 4-PIN PWM FAN W/HUS FOR SC733
Heat Sink	SNK-P0050AP4	-	Active CPU Heat Sink
Heat Sink	SNK-P3002A	-	Liquid Cooling Module w/ a 3-pin Pump Connector for SYS-5038AD-I and SYS-5039AD-T
Cable	CBL-SAST-0957	-	Mini SAS HD to PCIe SFF-8639 w/ Power, 55CM, 45CM, 34 AWG,RoHs
Cable	CBL-0179L	-	SATA CABLE 70CM FLAT S-S PBF
DVD-ROM	DVM-LITE-DVDRW24-HBT	-	BLACK LITE-ON 5.25" HH 24X DVD-RW SATA DRIVE PBF