

SuperServer 5039AD-I



Integrated Board



Super C9X299-PGF

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

[▶ Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Tested M.2 List](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Quick-References Guide](#)

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 of 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 ■ 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 ■ 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

Memory Voltage ■ 1.2V

On-Board Devices

Chipset ■ Intel® X299 Chipset

SATA ■ SATA3 via PCH w/ RAID 0, 1, 5, 10

IPMI ■ ASPEED AST2500

Network Controllers ■ Single LAN with Intel® Ethernet Controller I210-AT, shared IPMI port
■ Single LAN with Aquantia 5G LAN chip AQC108

Audio ■ ALC 1220 7.1 HD Audio

Input / Output

SATA ■ 6 SATA3 (6Gbps) ports

LAN ■ 2 RJ45 Gigabit Ethernet LAN ports

USB ■ 4 USB 3.0 ports (2 rear + 2 front)
■ 4 USB 3.1 ports (rear, 3 Type A + 1 Type C)

Display ■ 1 VGA port

Serial Port / Header ■ 1 COM Port (1 header)

Expansion Slots

PCI-Express ■ 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 ■ M.2 Interface: 2 PCI-E 3.0 x4
■ Form Factor:
slot1: 22110/2280, slot2: 2280
■ Key: M-Key (RAID 0, 1 support)
■ M-Key for SSD and Optane

U.2 ■ U.2 Interface: PCI-E 3.0 x4 (for Skylake-X only)

Chassis

Form Factor ■ Mid-Tower

Model ■ **CSE-GS5A-754K**

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 ■ Net Weight: 22.27 lbs (10.1 kg)
■ Gross Weight: 28.22 lbs (12.8 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off Button
■ Reset Button

LEDs ■ Power LED
■ Hard drive activity LED

Ports ■ 2 USB 3.0 ports
■ 1 Earphone, 1 Microphone port

Drive Bays

Fixed ■ 6 fixed 3.5" drive bays
■ 4 fixed 2.5" drive bays

Peripheral ■ 2 standard 5.25" drive bays

System Cooling

Fans ■ 2x 12cm front cooling fans
■ 1x 12cm rear exhaust fan

Power Supply

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

AC Input ■ 100-240Vac, 50-60Hz

+5V ■ Max: 20A & Min: 0A

+12V ■ Max: 62A & Min: 0.1A (100Vac-240Vac)

+3.3V ■ Max: 20A & Min: 0A

+5V SB ■ Max: 2.5A & Min: 0A

-12V ■ Max: 0.3A

Certification



Gold Certified

PC Health Monitoring

Voltage ■ +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT

FAN ■ 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors

System BIOS

BIOS Type	■ UEFI 128Mb
BIOS Features	■ ACPI 3.0 or later ■ SMBIOS 2.7 or later ■ BIOS rescue hot-key ■ SPI dual/quad speed support ■ Overclock support

Other Features	■ 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
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Operating Environment / Compliance

RoHS	■ RoHS Compliant
Environmental Spec.	■ 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-754K	1	3U Mid-Tow er 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-754-PQ	1	SSR-750FX 750W Multi-output-output PS w ith modular cable

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 / Pow er, 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
Intel VROC Standard	AOC-VROCSTNMOD	-	Intel VROC Upgrade Module Standard supports RAID 0/1/10
Intel VROC Premium	AOC-VROCPREMOD	-	Intel VROC Premium Module Premium supports RAID 0/1/10/5
Intel VROC	AOC-VROCINTMOD	-	Intel VROC Upgrade Module for Intel SSD only, RAID 0/1/10/5