

SuperWorkstation 5039AD-I



Integrated Board



[./en/products/motherboard/C9X299-PGF](/en/products/motherboard/C9X299-PGF)

[Super C9X299-PGF](/en/products/motherboard/C9X299-PGF) [./en/products/motherboard/C9X299-PGF](/en/products/motherboard/C9X299-PGF)

Views: | [Angled View](/a_images/products/views/5039AD-I_angle.jpg) [\(/a_images/products/views/5039AD-I_angle.jpg\)](/a_images/products/views/5039AD-I_angle.jpg) | [Side View](/a_images/products/views/5039AD-I_side.jpg) [\(/a_images/products/views/5039AD-I_side.jpg\)](/a_images/products/views/5039AD-I_side.jpg) | [Front View](/a_images/products/views/5039AD-I_front.jpg) [\(/a_images/products/views/5039AD-I_front.jpg\)](/a_images/products/views/5039AD-I_front.jpg) | [Rear View](/a_images/products/views/5039AD-I_rear.jpg) [\(/a_images/products/views/5039AD-I_rear.jpg\)](/a_images/products/views/5039AD-I_rear.jpg) |

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#)

[Tested M.2 List](/en/support/resources/m2ssd?SystemID=86207&ProductName=SS5039AD-I) [\(/en/support/resources/m2ssd?SystemID=86207&ProductName=SS5039AD-I\)](/en/support/resources/m2ssd?SystemID=86207&ProductName=SS5039AD-I)

[Manuals](#)

[OS Certification Matrix](/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D5039AD%2Di) [\(/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D5039AD%2Di\)](/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D5039AD%2Di)

[Quick-References Guide](#)

[Compatible GPU List](/en/support/resources/gpu) [\(/en/support/resources/gpu\)](/en/support/resources/gpu) [Drive Options](#)

Applications

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

Key Features

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 256GB Non-ECC UDIMM, DDR4-2666MHz, in 8 DIMM slots
4. 4 PCI-E 3.0 x16; 1 PCI-E 3.0 x1, 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

SuperWorkstation
SYS-5039AD-I (Black)

Motherboard

Super C9X299-PGF
[\(/en/products/motherboard/C9X299-PGF\)](/en/products/motherboard/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 (Skylake-X/Cascade Lake-X)

System Memory

Memory Capacity
8x 288-pin DDR4 DIMM slots
Supports up to 256GB DDR4 Non-ECC Un-Buffered memory (UDIMM)
Memory Type
2666/2400/2133/1866/1600MHz Non-ECC DDR4 288-pin UDIMM
DIMM Sizes
32GB, 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/Cascade-X 48 Lanes) or NA/4/4/8 (Kabylake-X), 1 PCI-E 3.0 x1 slot ***

Chassis

Form Factor
Mid-Tower
Model
CSE-GS5A-754K (/products/chassis/tower/S5/SCGS5A-754K.cfm)

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 out;
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

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 (Skylake-X/Cascade-X)

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

Certification

(<http://www.plugloadsolutions.com/80PlusPowerSupply?id=69&type=2>). **Gold Certified**

([/products/powersupply/80PLUS/80PLUS_PWS-753-PQ.r](http://products/powersupply/80PLUS/80PLUS_PWS-753-PQ.r)

PC Health Monitoring**Voltage**

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

FAN

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

Other Features

ACPI power management, ATX Power connector, Control of power-on from AC power loss, CPU thermal trip support for processor protection, Response Technology, Voltage and Frequency Overclocking, WOL

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:

Parts List

[Global SKU \(/en/products/SMC_global_skus\)](/en/products/SMC_global_skus)
