

SuperWorkstation 7039A-i



Integrated Board



[\(/products/motherboard/Xeon/C620/X11DAi-N.cfm\)](https://products/motherboard/Xeon/C620/X11DAi-N.cfm)

[Super X11DAi-N \(/products/motherboard/Xeon/C620/X11DAi-N.cfm\)](https://products/motherboard/Xeon/C620/X11DAi-N.cfm)

Views: | [Angled View \(/a_images/products/views/7039A-i_angle.jpg\)](#) | [Side View \(/a_images/products/views/7039A-i_side.jpg\)](#) | [Front View \(/a_images/products/views/7039A-i_front.jpg\)](#) | [Rear View \(/a_images/products/views/7039A-i_rear.jpg\)](#) |

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

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=85925&ProductName=SS7039A-i\)](#)

[NVMe Options](#) | [Manuals](#)

[OS Certification Matrix \(/en/support/resources/certification/SYS-7039A-i\)](#)

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

[Quick-References Guide](#) | [Drive Options](#)

Key Features

□ Whisper Quiet Workstation

1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)†
2. 16 DIMMs; up to 4TB 3DS ECC DDR4-2933MHz RDIMM/LRDIMM
3. 4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 slots, **M.2 Interface:** PCI-E 3.0 x4 **M.2 Form Factor:** 2260, 2280, 22110 **M.2 Key:** M-Key, 2 PCI-E 3.0 NVMe x4 Internal Port(s)
4. 2x 1GbE LAN ports
5. 7.1 HD Audio
6. 4 Internal fixed 3.5" drive bays, 2 5.25" peripheral drive bays
7. 1 M.2 slot, 2 NVMe support with optional cables
8. 1200W High-efficiency Power Supply **Platinum Level Certified**



[\(/Global_S](#)

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-7039A-i (**Black**)

Motherboard

Super X11DAi-N

(</products/motherboard/Xeon/C620/X11DAi-N.cfm>).

Processor/Cache

CPU

Dual Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors‡,

Dual UPI up to 10.4GT/s

Support CPU TDP 70-205W*

Cores

Up to 28 Cores

Note

* 200W/205W CPUs are supported under certain configurations. Special Low Tcase CPU SKUs are not supported. Please contact Supermicro Technical Support for additional information and specialized system optimization.

Note

‡ BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

Note

Must add Heatsink SNK-P0070APS4 when purchasing complete system from Supermicro.

GPU Support

Please refer to: [Compatible GPU list](#)

(</support/resources/GPU>).

System Memory

Memory Capacity

16 DIMM slots

Up to 4TB 3DS ECC DDR4-2933MHz RDIMM/LRDIMM

Memory Type

2933/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

DIMM Sizes

RDIMM: 64GB

LRDIMM: 64GB

3DS LRDIMM: 128GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

Note

DIMM capacities larger than 32GB are supported under certain configurations. Please contact Supermicro Technical Support for additional information and specialized system optimization.

On-Board Devices

Chipset

Intel® C621 chipset

SATA

SATA3 (6Gbps); RAID 0, 1, 5, 10

Network Controllers

Dual LAN with GbE from C621

IPMI

ASPEED AST2500

Audio

RealTek ALC888 7.1 High Definition Audio with S/PDIF header

Chassis

Form Factor

Mid-Tower

Model

CSE-732D3-1K26B (/en/products/chassis/tower/732/SC71K26B)

Dimensions and Weight

Height

16.7" (424mm)

Width

7.6" (193mm)

Depth

20.68" (525.3mm)

Gross Weight

40 lbs (18.1 kg)

Available Colors

Black

Front Panel

Buttons

Power On/Off button

LEDs

Power LED

Hard drive activity LED

Network activity LED

System Information LED

Ports

2 front USB 3.0 Ports

2 front HD/AC97 Audio Ports

Expansion Slots

PCI-Express

4 PCI-E 3.0 x16 slots

2 PCI-E 3.0 x8 slots

M.2

M.2 Interface: PCI-E 3.0 x4

Form Factor: 2260, 2280, 22110

Key: M-Key

Drive Bays

Internal

4 Fixed 3.5" drive bays

(90° rotatable drive cage)

Enterprise SATA HDD only recommended

Peripheral Bay

2x 5.25" standard drive bays

4x 2.5" fixed drive bays (optional)

System Cooling

Fans

1x 12cm rear exhaust fan

1x 12cm front cooling fan

Optimized cooling technology for Whisper-Quiet Operation

Power Supply

1200W PS2 Multi-output Power Supply

Power Efficiency

94%

Input / Output

SATA

10 SATA3 (6Gbps) ports

NVMe

2 NVMe support with optional cables

LAN

2 RJ45 Gigabit Ethernet LAN ports

USB

6 USB 3.0 ports (4 rear, 2 front)

2 USB 3.1 ports (rear)

Audio

7.1 HD Audio with optical S/PDIF

Video

1 VGA port

Serial Port / Header

1 COM port (header)

DOM

2 SuperDOM (Disk on Module) ports

TPM

1 TPM 2.0 Header

System BIOS

BIOS Type

UEFI 128M

Management

Software

Intel® Node Manager

[IPMI 2.0 \(/solutions/IPMI.cfm\)](#)

[SSM \(/solutions/SMS_SSM.cfm\)](#), [SPM](#)

[\(/solutions/SMS_SPM.cfm\)](#), [SUM](#)

[\(/solutions/SMS_SUM.cfm\)](#)

[SuperDoctor® 5 \(/solutions/SMS_SD5.cfm\)](#)

Watchdog

PC Health Monitoring

CPU

Monitors for CPU Cores, Chipset Voltages, Memory.

4+1 Phase-switching voltage regulator

FAN

Fans with tachometer monitoring

Status monitor for speed control

Pulse Width Modulated (PWM) fan connectors

Temperature

Monitoring for CPU and chassis environment

Thermal Control for fan connectors

Parts List

Total Output Power and Input

1000W with Input 100 - 120Vac

1200W with Input 120 - 240Vac

AC Input Frequency

50-60 Hz

Dimensions (L x W x H)

185 x 150 x 86 mm

Output Type

24pin ATX

-12V

Max: 0.3A / Min: 0A

+12V

Max: 83A (100Vac - 120Vac)

Max: 99A (120Vac - 240Vac)

+5V

Max: 20A / Min: 0A

+3.3V

Max: 20A / Min: 0A

+5Vsb

Max: 3A / Min: 0A

Certification



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

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)

Certain products may not be available in your region

Global SKU (/en/products/SMC_global_skus)
