

# SuperWorkstation 5039C-T



**Integrated Board**



**Super X11SCA**

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

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[Compatible GPU List](#) ▶ [Drive Options](#)**

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

## Key Features

**Entry-Level Workstation  
Designed for CAD and 3D Modeling  
Applications  
NVIDIA® Quadro® Professional  
GPU Support**

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100 / E-2200 series, 8th/9th Gen. Intel® Core™ i9/i7/i5/i3 Processors, Intel® Celeron®, Intel® Pentium®
2. Intel® C246 chipset
3. Up to 128GB\* ECC/non-ECC UDIMM, up to DDR4-2666MHz; 4 DIMM slots
4. 2 PCI-E 3.0 x16 running at NA/16 or 8/8, 1 PCI-E 3.0 x4 slot, 1 PCI-E 3.0 x1 slot
5. 2 M.2 (M-key, 2260/2280/22110), 1 U.2 for optional expanded storages
6. 2 USB Type A & Type C, 4 USB 3.1 Gen1 (2 rear + 2 front), 2 USB 2.0 (front)
7. 1 HDMI 2.0a port, 1 DVI-Dport, 1 DP 1.2 port, 1 TPM header, 1 COM header
8. 4 Fixed 3.5", Opt. 4 2.5" drive bays, 2 Standard 5.25" drive bays, 1 Fixed 3.5" device bay
9. 668W Platinum Level Power Supply **(Updated for 2021 Version)**

# Specifications

## Product SKUs

**SuperWorkstation** ■ SYS-5039C-T (2021 version)

## Motherboard

**Super X11SCA**

## Processor

**CPU** ■ Single Socket H4 (LGA 1151), CPU TDP support up to 95W  
 ■ Support Intel® Xeon® processor E-2100 / E-2200 series, 8th/9th Gen. Intel® Core™ i9/i7/i5/i3 Processors, Intel® Celeron®, Intel® Pentium®

**Core/Cache** ■ Up to 8-Cores

## System Memory

**Memory Capacity** ■ 4 DIMM slots  
 ■ Up to 128GB\* ECC/non-ECC UDIMM  
 ■ Up to DDR4-2666MHz

**Memory Type** ■ 2666/2400/2133MHz ECC DDR4 SDRAM

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

**Note** \* BIOS must be 1.0c or newer

## On-Board Devices

**Chipset** ■ Intel® C246 chipset

**SATA** ■ SATA3 (6Gbps) via Intel C246 controller  
 ■ RAID 0, 1, 5, 10 support

**Network Controllers** ■ Single LAN with Intel® I210-AT  
 ■ Single LAN with Intel® PHY I219LM

## Input / Output

**SATA** ■ 8 SATA3 (6Gbps) ports from Intel® C246

**LAN** ■ 2 RJ45 Ethernet LAN ports

**USB** ■ 2 USB 3.1 Gen 2 Type A and Type C (rear)  
 ■ 4 USB 3.1 Gen 1 (2 rear + 2 front)  
 ■ 2 USB 2.0 (front)

**Video** ■ 1 HDMI (2.0a) port  
 ■ 1 DVI-D port, 1 DisplayPort 1.2 port

**Audio** ■ 7.1 HD Jacks

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

**TPM** ■ 1 TPM 2.0 Header

## Expansion Slots

**PCI-Express** ■ 2 PCI-E 3.0 x16 running at NA/16 or 8/8  
 ■ 1 PCI-E 3.0 x4 slot  
 ■ 1 PCI-E 3.0 x1 slot  
 ■ 1 PCI 32bit 5V slot

## Chassis

**Form Factor** ■ Mid-Tower

**Model** ■ CSE-732D4-668B

## Dimensions and Weight

**Height** ■ 16.7" (424mm)

**Width** ■ 7.6" (193mm)

**Depth** ■ 20.68" (525.3mm)

**Gross Weight** ■ 35.5 lbs (16.1 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 USB 2.0 ports, 2 USB 3.1 Gen 1 ports  
 ■ 1 Line-out, 1 Mic-in

## Drive Bays

**Internal** ■ 4 Fixed 3.5" drive bays  
 ■ Optional 4 internal 2.5" drive bays  
 ■ Enterprise SATA HDD only recommended

**Peripheral** ■ 2 Standard 5.25" Peripheral drive bays  
 ■ 1 Internal 3.5" Fixed device bay

## System Cooling

**Fans** ■ 1x 12cm rear exhaust fan  
 ■ Optional 1x 12cm front cooling fan

## Power Supply

668W AC power supply

**AC Voltage** ■ 100 - 240V, 50-60Hz

**+5V** ■ 20 Amp

**+5V standby** ■ 2 Amp

**+12V** ■ Max: 54A & Min: 0.2A (100Vac-240Vac)

**-12V** ■ 0.1 Amp

**+3.3V** ■ 15 Amp

**Certification**



**Platinum Certified**

## PC Health Monitoring

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| <b>M.2</b> | <ul style="list-style-type: none"><li>■ M.2 Interface: 2 PCI-E 3.0 x4</li><li>■ M.2 Form Factor: 2260/ 2280/ 22110</li><li>■ M.2 Key: M-Key</li><li>■ U.2 Interface: 1 PCI-E 3.0 x4 (Shared with M.2#2)</li></ul> |
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#### System BIOS

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|----------------------|--|
| <b>BIOS Type</b>     | <ul style="list-style-type: none"><li>■ UEFI 256Mb</li></ul>   |
| <b>BIOS Features</b> | <ul style="list-style-type: none"><li>■ ACPI 3.0 or later</li><li>■ SMBIOS 2.7 or later</li><li>■ SPI dual/quad speed support</li><li>■ RTC wakeup</li></ul> |
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|------------|---|
| <b>CPU</b> | <ul style="list-style-type: none"><li>■ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +-12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.</li><li>■ 4+2-Phase-switching voltage regulator</li></ul> |
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| <b>FAN</b> | <ul style="list-style-type: none"><li>■ Low noise fan speed control</li></ul> |
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|--------------------|---|
| <b>Temperature</b> | <ul style="list-style-type: none"><li>■ Monitoring for CPU and chassis environment</li><li>■ Thermal Control for 5x 4-pin fan connectors</li><li>■ PECI</li></ul> |
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#### Operating Environment / Compliance

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| <b>RoHS</b> | <ul style="list-style-type: none"><li>■ RoHS Compliant</li></ul> |
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| <b>Environmental Spec.</b> | <ul style="list-style-type: none"><li>■ Operating Temperature: 10°C to 35°C (50°F to 95°F)</li><li>■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li><li>■ Operating Relative Humidity: 8% to 90% (non-condensing)</li><li>■ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li></ul> |
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## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11SCA	1	Super X11SCA Motherboard
	CSE-732D4-668B	1	3U Mid-Tower Chassis
<b>Cable 1</b>	CBL-0044L	4	SATA,INT,FLAT,57.7CM,26AWG
<b>Manual</b>	MNL-2090-QRG	1	5039C-T Quick Reference Guide
<b>Parts</b>	MCP-450-00006-0B	2	Plastic M.2 holder kit for X11 MB,All black color,RoHS
<b>Parts</b>	MCP-260-00122-0N	1	Standard I/O Shield for X11SCA with EMI Gasket
<b>Power Supply</b>	PWS-668-PQ	1	PS2 668W Multi-Output 80Plus Platinum Power Supply with 24pi

### Optional Parts List

	Part Number	Qty	Description
<b>Cable</b>	CBL-SAST-0957	-	Mini SAS HD to PCIe SFF-8639 w/ Power, 55CM, 45CM, 34 AWG,RoHs
<b>Cable</b>	CBL-0082L	-	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
<b>Converter HDD Tray</b>	MCP-220-73102-0N	-	2.5" to 3.5" SSD/HDD Adapter Tray for 731, 732, DS3, 842
<b>HDD Cage</b>	MCP-220-73201-0N	-	SC732 2.5" HDD Cage (4x Internal 2.5" HDD) - Single Pack
<b>Fan</b>	FAN-0124L4	-	High performance 12cm (1850rpm) cooling fan
<b>Heat Sink</b>	SNK-P0051AP4	-	4U Active CPU Heat Sink for Gaming and Socket H UP Systems,RoHS/REACH,PBF
<b>DVD-ROM</b>	DVM-LITE-DVDRW24-HBT1 with CBL-0082L & CBL-SAST-0624	-	BLACK LITE-ON 5.25" HH 24X DVD-RW SATA DRIVE PBF