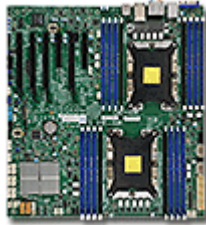


# SuperWorkstation 7039A-i



Integrated Board



**Super X11DAi-N**

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

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## 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,  
Supports Intel® Optane™ DCPMM††
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**

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**

## Processor/Cache

**CPU** ■ Dual Socket P (LGA 3647)  
■ 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)‡, Dual UPI up to 10.4GT/s  
■ Support CPU TDP 70-205W

**Cores** ■ Up to 28 Cores

**Note** ‡ BIOS version 3.0a or above is required to support 2nd Gen. Intel® Xeon® Scalable processors

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

## System Memory

**Memory Capacity** ■ 16 DIMM slots  
■ Up to 4TB 3DS ECC DDR4-2933MHz RDIMM/LRDIMM  
■ Supports Intel® Optane™ DCPMM††

**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** †† Cascade Lake only. Contact your Supermicro sales rep for more info.

## 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

## 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

## Chassis

**Form Factor** ■ Mid-Tower

**Model** ■ **CSE-732D3-1200B**

## 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 high-efficiency power supply w / PMBus

**AC Input** ■ 1000W: 100-114.9 V, 50-60 Hz, 12 Amp  
■ 1200W: 114.9-240 V, 50-60 Hz, 12-8 Amp

**DC Output** ■ +3.3V / +5V / +12V / -12V / +5VSB  
**1000W max** ■ 20A / 20A / 83A / 0.3A / 3A  
**1200W max** ■ 20A / 20A / 99A / 0.3A / 3A

**Note:** ■ Max. continuous combined load on +3.3V and +5V output shall not exceed 120W.

<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1 COM port (header)</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2 SuperDOM (Disk on Module) ports</li> </ul>
<b>TPM</b>	<ul style="list-style-type: none"> <li>1 TPM 2.0 Header</li> </ul>

#### System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>UEFI 128M</li> </ul>
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#### Management

<b>Software</b>	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li><u>IPMI 2.0</u></li> <li><u>SSM, SPM, SUM</u></li> <li><u>SuperDoctor® 5</u></li> <li>Watchdog</li> </ul>
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#### PC Health Monitoring

<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, Chipset Voltages, Memory.</li> <li>4+1 Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for fan connectors</li> </ul>

#### Certification



#### Platinum Certified

#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<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>

# Parts List

## Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DAi-N	1	Super X11DAi-N Motherboard
	CSE-732D3-1200B	1	3U Mid-Tower Chassis
<b>Cable 1</b>	CBL-0071L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,75CM,28AWG
<b>Cable 2</b>	CBL-0082L	2	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
<b>Cable 3</b>	CBL-0084L	1	CBL,FRONT CNTL,SPLIT,16 PIN,W/CONVERTER HEAD,15CM,26AWG
<b>Cable 4</b>	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
<b>Cable 5</b>	CBL-0453L	1	USB 3.0,INT,19 PIN/F TO 19PIN/F,60CM,CONNECT TO CBL-0454L
<b>Cable 6</b>	CBL-0455L	1	CBL,AUDIO,HD/AC97,60cm
<b>Cable 7</b>	CBL-SAST-0624	4	SATA,INT,ROUND,ST-ST,70CM,30AWG
<b>FAN 1</b>	FAN-0124L4	1	12 CM x12 CM fan
<b>FAN 2</b>	FAN-0124L4	1	12 CM x12 CM fan
<b>Drive Tray(s)</b>	MCP-220-73101-0B	4	SC731 Tool-less Internal 3.5inch HDD Tray
<b>Parts</b>	MCP-260-00115-0N	1	Standard I/O Shield for X11DAi with EMI Gasket
<b>Manual</b>	MNL-1996-QRG	1	7039A-I Quick Reference Guide
<b>Power Supply</b>	PWS-1K25P-PQ	1	PS2 1200W Multi Output High Efficiency P

## Optional Parts List

	Part Number	Qty	Description
<b>NVMe support kit</b>	MCP-220-73201-0N	-	SC732 2.5" HDD Cage (4x Internal 2.5" HDD)
	CBL-SAST-0956		Oculink to PCIe SFF-8639 w / Power, 55CM - ADD QTY 1 per drive
<b>HDD Cage for 2.5" drives</b>	MCP-220-73201-0N	-	SC732 2.5" HDD Cage (4x Internal 2.5" HDD)
<b>Heat Sink</b>	SNK-P0070APS4	-	4U Active CPU Heat Sink - Add QTY 1 per CPU

<b>DVD-RW</b>	DVM-LITE-DVDRW24-HBT	-	BLACK LITE-ON 5.25" HH 24X DVD-RW SATA DRIVE PBF
	1x CBL-SAST-0624		SATA,INT,ROUND,ST-ST,70CM,30AWG
	1x CBL-0082L		Y split, big 4 pin to two RA SATA power extension 15cm, 18AWG

