Super Workstation SYS-751A-I

Unleash the full power of the data center in a portable form factor with Supermicro X13 DP workstations. Dual 4th Gen Intel Xeon Scalable processors deliver unrivalled compute power and support the industry's latest double-width GPUs for the most demanding workloads.
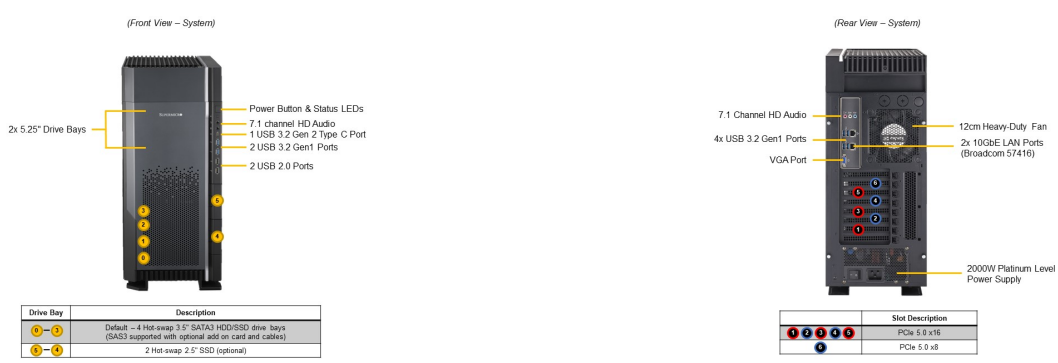
Key Applications

Rendering, CAD, Multimedia/Digital Content creation, Engineering/scientific research,

Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- Intel® C741 Chipset;
- 5 PCIe 5.0 x16, 1 PCIe 5.0 x8, 2 NVMe M.2 slots;
- up to 4x NVMe SSD support with opitonal cables and converter trays; 2x 5.25" peripheral drive bays; 2x 2.5" Front access SATA drive bays with hot swap; 4x internal 3.5" SATA rotating drive bays for easy access;
- New front bezel with keylock for added security; Compact and quiet operation;
- Supports up to two double width active GPUs; 1 VGA, 6 USB 3.2 Gen1 (4 Rear, 2 Front), 2 USB 3.2 Gen2 (1 ineternal, 1 Front type C), 2 USB 2.0, 7.1 HD Audio;

Form Factor	Tower or 5U Rackmount Enclosure: 221 x 536 x 574mm (8.7" x 21.1" x 22.6") Package: 371 x 701 x 711mm (14.6" x 27.6" x 28")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 320MB Cache per CPU
GPU	Max GPU Count: Up to 2 double-width GPU(s) Supported GPU: NVIDIA PCIe: RTX 6000 ADA,RTX A5500,RTX A6000,RTX A4500,RTX A2000,T400,T1000,RTX A5000 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	4x 3.5" SATA/NVMe drive bays (4x 3.5" NVMe hybrid) 2 M.2 NVMe
Expansion Slots	5 PCIe 5.0 x16 FHFL slot(s) 1 PCIe 5.0 x8 FHHL slot(s)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support Chipset: Intel® C741 Network Connectivity: 2x 10GbE port(s) IPMI: Support for Intelligent Platform Management Interface v.2.0 　　IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	SATA: 2 SuperDOM port(s) 　　1 SlimSAS port(s) LAN: 2 RJ45 10GbE (IPMI Shared on LAN port1) USB: 4 USB 3.2 Gen1 port(s) (4 Rear_USB) 　　5 USB 2.0x2; 3.2 Gen1x2; 3 port(s) (5 Front_USB) Video: 1 VGA port(s)

(Front View – System)

Power Button & Status LEDs
7.1 channel HD Audio
1 USB 3.2 Gen 2 Type C Port
2 USB 3.2 Gen1 Ports
2 USB 2.0 Ports

2x 5.25" Drive Bays

Drive Bay	Description
0 — 3	Default – 4 Hot-swap 3.5" SATA3 HDD/SSD drive bays (SAS3 supported with optional add on card and cables)
5 — 4	2 Hot-swap 2.5" SSD (optional)

(Rear View – System)

7.1 Channel HD Audio
4x USB 3.2 Gen1 Ports
VGA Port
12cm Heavy-Duty Fan
2x 10GbE LAN Ports (Broadcom 57416)
2000W Platinum Level Power Supply

Slot Description		
1 2 3 4 5	PCIe 5.0 x16	
6	PCIe 5.0 x8	

CPU1 ■ CPU2 ■

System Cooling	Fans: 3x 12cm heavy duty fans with optimal fan speed control
Power Supply	2000W Platinum Level power supply
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0

PC Health Monitoring	Temperature: Monitoring for CPU and chassis environment
	      Thermal Control for fan connectors
	FAN: Status monitor for speed control
	   Pulse Width Modulated (PWM) fan connectors
	CPU: Monitors for CPU Cores, Chipset Voltages, Memory.

Dimensions and Weight	Height: 21.1" (536 mm) Width: 8.7" (221 mm) Depth: 22.6" (574 mm) Gross Weight: 59.5 lbs (27 kg) Net Weight: 56.2 lbs (25.5 kg) Packaging: 27.6" (H) x 14.6" (W) x 28" (D) Available Color: Black
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super X13DAI-T
Chassis	CSE-GS7A-000NBP3

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis
Part Number	MBD-X13DAI-T	CSE-GS7A-000NBP3
Qty	1	1
Description	Super X13DAI-T Motherboard	Tower or 5U Chassis

Cable
Part Number	CBL-PWCD-0925	CBL-PWEX-0663	CBL-SAST-1270S-100
Qty	1	1	1
Description	PWCD,US,NEMA 5-15P TO IEC60320 C19, 6FT, 14AWG, 15A/125V	PCIe 8 Pin Male(black) to CPU 8 Pin Female(White) Power Adap	SlimSASx8 STR to 8xSATA w/2SB,70CM,100Ohm,RoHS

Fan
Part Number	FAN-0154L4-1	FAN-0222L4
Qty	1	3
Description	Memory cooling kit with 4pcs FAN-0154L4 for X13 workstation,	120x120x25 mm, 6.4K RPM, Optional Fan for GS7 Project

Parts
Part Number	MCP-260-00181-0B
Qty	1
Description	STD I/O Shield for X13DAI-T with EMI Gasket & Black Mylar

Manual
Part Number	MNL-2583-QRG
Qty	1
Description	751A-I Quick Reference Guide

Power Supply
Part Number	PWS-2K01-PQ
Qty	1
Description	PS2 2000W Multi-output PLATINUM power supply,RoHS

Heatsink / Retention
Part Number	SNK-P0090AP4
Qty	2
Description	4U Active CPU HS for X13 Gen. Intel Eagle Stream Platform

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

DVD-RW Drive
Part Number	DVM-LITE-DVDRW24-HBT1
Qty	-
Description	BLACK LITE-ON 5.25" HH 24X DVD-RW SATA DRIVE

Gen4 8-ports SAS Raid controller kit
Part Number	AOC-S3908L-H8IR-16DD-O
Qty	-
Description	8 int 12Gb/s ports, x8 Gen4, ROC - LP, 16 HDD w/ exp,RoHS

Management Software
Part Number	SFT-DCMS-SINGLE *eStore* (https://store.supermicro.com/supermicro-server-manager-dcms-license-key-sft-dcms-single.html)
Qty	-
Description	Supermicro System Managment Software Suite - 1 per node

Mobile Rack
Part Number	CSE-M28SACB
Qty	-
Description	SAS3/SATA3 Mobile Rack for 8x 2.5" HDD

NVMe cable
Part Number	CBL-MCIO-1245U2Y-E
Qty	-
Description	MCIO x8 to 2x SFF-8639/U.2+Pwr,45cm,G5,RoHS

OOB License
Part Number	SFT-OOB-LIC *eStore* (https://store.supermicro.com/out-of-band-sft-oob-lic.html)
Qty	-
Description	License for out of band management

SAS cable
Part Number	CBL-SAST-1264-100
Qty	-
Description	Slimline x8 (STR) to 2x MiniSAS HD x4,65CM,100 OHM,RoHS

SATA Cable
Part Number	CBL-SAST-0624 *eStore* (https://store.supermicro.com/supermicro-sata-round-straight-straight-70cm-cable-cbl-sast-0624.html)
Qty	-

Description	70cm SATA Cable (1pc required for DVD Drive)

SATA Power adapter

Part Number	CBL-0082L •*eStore* (https://store.supermicro.com/supermicro-15cm-4-pin-peripheral-connector-to-2-right-angle-sata-power-extension-cable-cbl-0082l.html)
Qty	-
Description	Y SPLIT SATA POWER ADAPTER (1pc required for DVD Drive)

SuperCap kit for AOC-S3908L-H8iR-16DD

Part Number	BTR-CVPM05
Qty	-
Description	Broadcom 05-50039-00 CacheVault w/ 24" Remote Extender