

Desktop Gaming Workstation SYS-531AD-I

UP mid-tower workstation for gaming and content creation



Key Applications

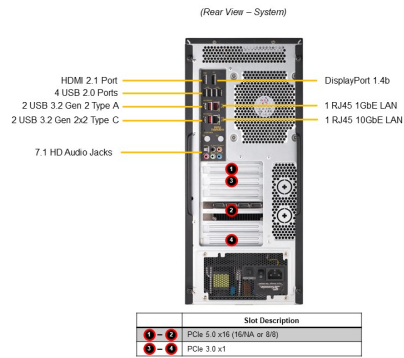
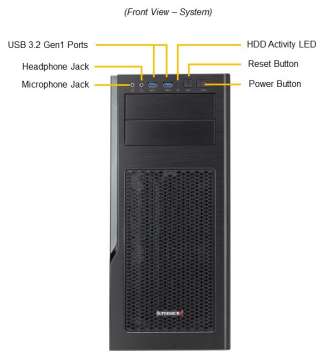
High-performance Gaming, Content Creation,

Key Features

- Supports 14th/13th/12th Gen Intel® Core™ i9, i7, i5, and i3 Processors;
- 2 PCIe 5.0 x16 slots (16/NA or 8/8);
- 3x 12cm PWM Fans;



Form Factor	Mid-Tower Enclosure: 200 x 460 x 493mm (7.9" x 18.1" x 19.4") Package: 361 x 632 x 610mm (14.2" x 24.9" x 24")
Processor	Single Socket V0 (LGA-1700) 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® Processors Up to 24C/48T; Up to 16MB Cache
GPU	Up to 1 double-width GPU
System Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 128GB 4400MT/s non-ECC DDR5 UDIMM
Drive Bays Configuration	Default: Total 6 bays • 6 internal fixed 3.5" SATA drive bays M.2: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key 2280/22110) 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280/22110) Peripheral Bays: 2 5.25" bays
Expansion Slots	Default • 2 PCIe 5.0 x8 FHFL slots • 2 PCIe 3.0 x1 FHFL slots Option A • 1 PCIe 5.0 x16 FHFL slot • 2 PCIe 3.0 x1 FHFL slots
On-Board Devices	SATA: SATA (6Gbps) Chipset: Intel® Z790 Network Connectivity: 1 RJ45 1GbE with Intel® PHY I219-V 1 RJ45 10GbE with Marvell® AQC113
Input / Output	USB: 4 USB 2.0 ports (rear) 2 USB 2.0 ports (header) 2 ports (front) 2 ports (rear) Video: 1 DisplayPort 1.4b port 1 port(s) supporting 8K@60Hz as specified in HDMI® 2.1 (Rear) Audio: 7.1 HD Audio TPM: 1 TPM header



System Cooling	Fans: Up to 2x 120mm Fan(s) Up to 1x 120mm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	1x 750W Gold Level power supply
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO)
PC Health Monitoring	Other Features: 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, Voltage and Frequency Overclocking, WOL Voltage: +1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, 5 (4-pin), CPU, CPU temperature, CPU thermal trip support, PCH temperature, System temperature, VBAT, VRM temperature
Dimensions and Weight	Weight: Gross Weight: 26 lbs (11.8 kg) Net Weight: 20 lbs (9 kg) Available Color: Black / Gray
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 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 C9Z790-CG
Chassis	CSE-GS5A-754K