# Desktop Gaming Workstation SYS-531AD-I

UP mid-tower workstation for gaming and content creation

More details here

## Key Applications

High-performance Gaming, Content Creation,

## Key Features

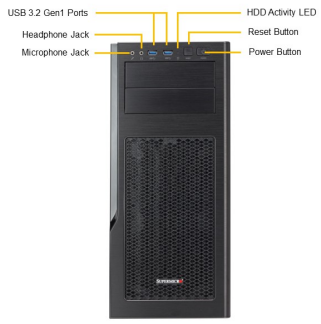
- Supports 14th/13th/12th Gen Intel® Core™ i9, i7, i5, and i3 Processors;
- 2 PCIe 5.0 x16 slots (16/NA or 8/8);
- 3x 12cm PWM Fans;



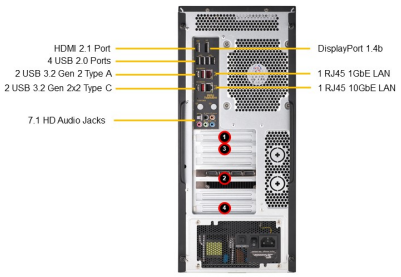
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|---|---|
| Form Factor | Mid-Tower Rackmount<br>Enclosure: 200 x 460 x 493mm (7.9" x 18.1" x 19.4")<br>Package: 361 x 632 x 610mm (14.2" x 24.9" x 24") |
| Processor | Single Socket V (LGA-1700)<br>14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® Processors<br>Up to 24C/48T; Up to 16MB Cache |
| GPU | Max GPU Count: Up to 1 double-width GPU(s)<br>Supported GPU: NVIDIA PCIe: RTX A5500, RTX A6000, RTX A4000 |
| System Memory | Slot Count: 4 DIMM slots<br>Max Memory (2DPC): Up to 128GB 4400MT/s non-ECC DDR5 UDIMM |
| Drive Bays Configuration | Default: Total 6 bay(s)<br>• 6 internal fixed 3.5" SATA drive bay(s)<br>M.2: 2 M.2 PCIe 3.0 x4 NVMe slot(s) (M-key 2280/22110)<br>1 M.2 PCIe 4.0 x4 NVMe slot(s) (M-key 2280/22110)<br>Peripheral Bays: 2 5.25" bay(s) |
| Expansion Slots | Default<br>• 2 PCIe 5.0 x8 FHFL slot(s)<br>• 2 PCIe 3.0 x1 FHFL slot(s)<br>Option A<br>• 1 PCIe 5.0 x16 FHFL slot(s)<br>• 2 PCIe 3.0 x1 FHFL slot(s) |
| On-Board Devices | SATA: SATA (6Gbps)<br>Chipset: Intel® Z790<br>Network Connectivity: 1 RJ45 1GbE with Intel® PHY I219-V<br>1 RJ45 10GbE with Marvell® AQC113 |
| Input / Output | USB: 4 USB 2.0 port(s) (rear)<br>2 USB 2.0 port(s) (header)<br>2 port(s) (front)<br>2 port(s) (rear)<br>Video: 1 HDMI 2.1 port(s)<br>1 DisplayPort 1.4b port(s)<br>Audio: 7.1 HD Audio<br>TPM: 1 TPM header |

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(Front View – System)




(Rear View – System)




| Slot | Description |
|---|---|
| 1 – 2 | PCIe 5.0 x16 (16/NA or 8/8) |
| 3 – 4 | PCIe 3.0 x1 |

| | |
|---|---|
| System Cooling | Fans: 2x 120mm Fan(s)<br>1x 120mm Fan(s)<br>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 | SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New! |
| PC Health Monitoring | Voltage:<br>+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<br>Other Features:<br>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 |
| Dimensions and Weight | Weight: Gross Weight: 26 lbs (11.8 kg)<br>Net Weight: 20 lbs (9 kg)<br>Available Color: Black / Gray |
| Operating Environment | Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing) |
| Motherboard | **Super C9Z790-CG** |
| Chassis | **CSE-GS5A-754K** |

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