

SG-WS210D

19-inch 2U High Performance Workstation



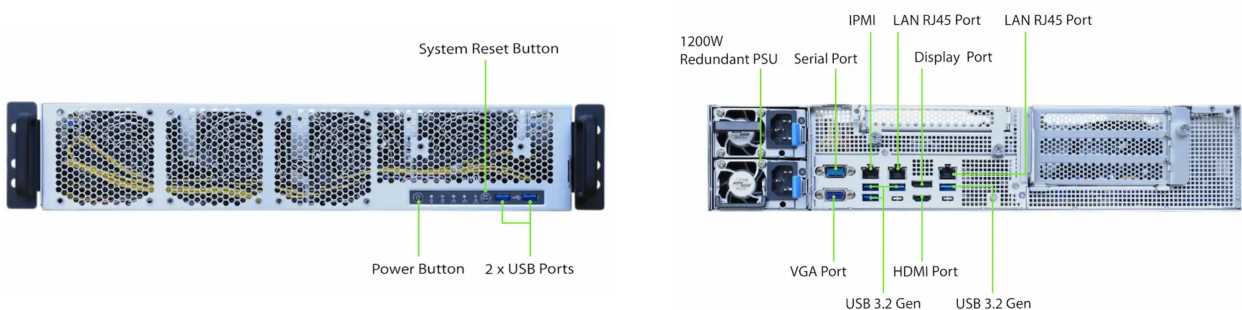
Key Features

- Compact 2U short-depth chassis, ideal for space-constrained racks
- Supports up to 2 high-performance GPUs for AI and Deep Learning workloads
- DDR5 ECC memory for enhanced stability during long-running computation
- Dual LAN with Intel® i210 controller and iKVM server management (ASPEED AST2600)
- Redundant power supply for continuous, uninterrupted operation
- PCIe 5.0 connectivity on both CPU-attached x16 and x4 slots for maximum bandwidth to GPUs and storage
- Dual M.2 NVMe slots (PCIe 5.0 and PCIe 4.0) for fast, low-latency boot and cache storage
- Rich I/O selection — VGA, HDMI, DisplayPort, 4 x USB 3.2 Gen1, and serial port — for flexible deployment and console access
- 3-year parts-and-labor warranty backed by onboard TPM header for hardware-level security

Overview

The 19" Rack Workstation is a high-performance computing platform powered by AMD EPYC™ processors, designed for demanding professional, enterprise, industrial, and mission-critical applications. Equipped with a Redundant Power Supply (RPS) to enhance system availability and minimize downtime, the workstation supports RAID 0 and RAID 1 configurations for optimized performance and improved data redundancy. Its standard 19" rack-mount design enables efficient integration into data centers, control rooms, security systems, and other professional environments. Supporting multiple operating systems, including Linux and Microsoft Windows 10/11, it delivers flexible deployment, reliable operation, and stable performance for a wide range of applications. And also supports API/SDK for seamless integration, remote control, and development from external applications

Port Description



SG-WS210D

19-inch 2U High Performance Workstation

Processor (CPU)	
CPU	AMD EPYC™ 4344P (Raphael) — 8 Core / 16 Thread, 3.8 GHz, 32MB Cache, TDP 65W
CPU Support	Supports AMD EPYC™ 4004 Series and AMD Ryzen™ 9000 / 8000 / 7000 Series (Socket AM5)
CPU Cooler	Active Sink (Included)

Memory	
Standard Memory	32GB (2 x 16GB DDR5 ECC-UDIMM 4800MT/s)
Total Slots	4 x DIMM Slots
Max. Memory Size	192 GB (Max. 48GB per DIMM)
Memory Type	DDR5 288-pin ECC / non-ECC UDIMM
Frequency	5600 MHz (1DPC) / 3600 MHz (2DPC)

Graphics / GPU	
Graphics Card (VGA)	NVIDIA GeForce RTX 4090, Dual-Slot, 24GB GDDR6X
GPU Expansion Slot	• 1 x FHFL Triple-Slot PCIe 5.0 x16 • 1 x FHFL PCIe 4.0 x4
Max. GPU Count	Up to 2 GPUs (depending on model and power capacity)

Storage	
Standard Storage	512GB SSD, SATA, 2.5" (Non-RAID)
Drive Bays	2 x 2.5" Optional Fixed Drive Bays
M.2 Slot	• M-Key (PCIe 5.0 x4), supports 2280/2242 form factor [CPU] • M-Key (PCIe 4.0 x4), supports 2280/2242 form factor [FCH]
RAID(Optional)	RAID0, RAID1

Network / Management	
LAN	2 x RJ45 Gigabit LAN (Intel® i210 Controller)
Remote Management (IPMI)	1 x Dedicated Remote Management Port
Server Management Controller	ASPEED AST2600 BMC with iKVM

I/O & Expansion	
USB	4 x USB 3.2 Gen1 Type-A
Video Output	• 1 x VGA Port (DB15) • 1 x HDMI Port • 1 x DisplayPort
Serial Port	1 x DB9 (COM)
TPM	1 x 13-pin SPI Header
Expansion Slot (Chipset)	• 1 x PCIe 5.0 x16 [CPU] • 1 x PCIe 5.0 x4 [CPU] • 1 x PCIe 4.0 x1 [FCH]

Chassis / Power	
Form Factor	2U Rackmount (19" mounting rail kit included)
Dimension (D x W x H)	477.7 x 430.4 x 88 mm
Slide Rail	Included
Power Supply (PSU)	1+1, 1200W Redundant Power Supply

Supported OS	
Supported OS	• Microsoft Windows 10 Pro / Windows 11 Pro (64-bit) • Linux (Ubuntu Server 22.04) • Virtualization: Proxmox VE 8.2

Warranty	
Warranty	• Chassis (Parts & Labor): 3 Years • GPU: 1 Year, Return For Repair (RFR)