

UP SuperServer SYS-110P-WR

1U UP WIO server with 10 hot-swap 2.5" drive bays and 3 PCIe 4.0 slots

[\(/files_SYS/images/System/SYS-110P-WR_main.jpg\)](#)

Key Applications

- Virtualization
- Cloud Computing
- Enterprise Server
- Data Center Optimized
- Database Processing and Storage

Key Features

Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors. Up to 270W TDP.

8 DIMMs; Supports 3DS DDR4-3200: RDIMM/LRDIMM/Intel® Intel® DCPMM

2 PCIe 4.0 x16 (FHFL) slots, 1 PCIe 4.0 x16 (LP) slot

Intel® Ethernet Controller i210 2x 1GbE RJ45

10x hot-swap 2.5" SATA3 drive bays with 4 hybrid NVMe/SATA drive bays, SAS3 with additional SAS controller card; Onboard 1x NVMe/SATA M.2

Redundant Platinum 750W Power Supply

Compare ☐

Specifications

Product SKUs SuperServer SYS-110P-WR		Chassis Form Factor 1U Rackmount	
Motherboard Super X12SPW-F (https://www.supermicro.com/en/products/motherboard/X12SPW-F)		Model CSE-116TS-R706WBP4	
Processor CPU Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors		Dimensions and Weight Height 1.7" (43 mm) Width 17.2" (437 mm) Depth 23.5" (597 mm) Package 8" (H) x 24" (W) x 32" (D) Weight Gross Weight: 38 lbs (17.24 kg) Net Weight: 25 lbs (11.34 kg)	
Core Count Up to 40C/80T; Up to 60MB Cache Note Supports up to 270W TDP CPUs (Air Cooled)		Available Color Black	
GPU Max GPU Count Up to 1 single-width GPU Supported GPU NVIDIA PCIe: T1000, A2 View GPU Options (https://www.supermicro.com/resources/gpu?rsc=fltr_sku%3D116TS-R706WBP4)		Front Panel LED Device Activity LAN 1 Activity LAN 2 Activity Power status System information Buttons Power On/Off UID button	
System Memory Memory Slot Count: 8 DIMM slots Max Memory (2DPC): Up to 2TB 3200MT/s ECC RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 2 series View Memory Options		Expansion Slots PCI-Express (PCIe) Configuration Default 2 PCIe 4.0 x16 FHFL slots 1 PCIe 4.0 x16 LP slot View AOC Options	
Memory Voltage 1.2V		Drive Bays / Storage Drive Bays Configuration Default: Total 10 bays 10 front hot-swap 2.5" SATA drive bays Option A: Total 10 bays 6 front hot-swap 2.5" SATA drive bays 4 front hot-swap 2.5" NVMe drive bays View NVMe Options View Drive Options	
On-Board Devices SATA SATA (6Gbps) ; RAID 0/1/5/10 support NVMe NVMe; RAID 0/1/5/10 support View NVMe Options Chipset Intel® C621A Network Connectivity 2 RJ45 1GBASE-T with Intel® I210 View AOC Options		M.2 1 M.2 PCIe 3.0 x4 NVMe/SATA slot (M-key 2280/22110) View M.2 Options (https://www.supermicro.com/pport/resources/m2ssd?SystemID=88379&ProductName=SYS-110P-WR)	
Input / Output LAN 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 1 GbE LAN ports USB 2 USB 2.0 ports(rear) 2 ports(front) 1 Type-A port 2 ports(header) 2 ports(rear) Video 1 VGA 2 port DOM 2 SuperDOM (https://www.supermicro.com/SATADOM/). (Dual SATA DOM Module) portswith built-in power		System Cooling Fans 5 counter-rotation PWM 40x40x56mm Fan(s) 1 AOC cooling Fan(s) (optional) Air Shroud 1 Air Shroud	
System BIOS BIOS Type AMI 32MB SPI Flash EEPROM		Power Supply	
Management			

Software	SuperCloud Composer® (https://www.supermicro.com/en/solutions/gement-software/supercloud-composer). Supermicro Server Manager (SSM). (https://www.supermicro.com/en/solutions/gement-software/supermicro-server-manag). Supermicro Update Manager (SUM). (https://www.supermicro.com/en/solutions/gement-software/supermicro-update-mana). Supermicro SuperDoctor® 5 (SD5). (https://www.supermicro.com/en/solutions/gement-software/superdoctor). Super Diagnostics Offline (SDO). (https://www.supermicro.com/en/solutions/gement-software/super-diagnostics-offline). Supermicro Thin-Agent Service (TAS). (https://www.supermicro.com/en/solutions/gement-software/thin-agent-service). SuperServer Automation Assistant (SAA) Nev. (https://www.supermicro.com/en/solutions/gement-software/superserver-automation-assistant).	2x 750W
		2x 750W Redundant (1 + 1) Platinum Level (94%) power supplies
Power configurations		ACPI/APM Power Management
Security		
Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Con	
Features	Cryptographically Signed Firmware	
	Secure Boot	
	Secure Firmware Updates	
	Automatic Firmware Recovery	
		System Lockdown
PC Health Monitoring		
CPU	Monitors for CPU Cores, Chipset Voltages, Mer 7+1 Phase-switching voltage regulator	
FAN	Fans with tachometer monitoring	
	Status monitor for speed control	
Temperature	Pulse Width Modulated (PWM) fan connectors	
	Monitoring for CPU and chassis environment	
		Thermal Control for fan connectors
		Operating Environment
		Environmental Spec.
		Operating Temperature: 10°C to 35°C (50°F to 95°F)
		Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
		Operating Relative Humidity: 8% to 90% (non-condensing)
		Non-operating Relative Humidity: 5% to 95% (non-condensing)
		Certification
		80 PLUS PLATINUM 94% (http://www.plugloadsolutions.com/80P id=69&type=2). Platinum Level
		[Test Report (https://www.supermicro.com/products/po706P-1R.pdf).]

Free Remote Testing

Get free access to Supermicro's top-end data center servers right from your browser with JumpStart

Supermicro's JumpStart program offers convenient remote access to fully-configured systems with SSH, VNC, and web IPMI, featuring the latest CPUs and GPUs. Schedule free access to validate, test, and benchmark your own workloads on Supermicro's top-end server platforms with a few simple steps.

[SCHEDULE ACCESS \(HTTPS://WWW.SUPERMICRO.COM/JUMPSTART/SCHEDULE/SKU/SYS-110P-WR\)](https://www.supermicro.com/JumpStart/Schedule/SKU/SYS-110P-WR)

Parts List

Certain products may not be available in your region
