

UP SuperServer SYS-511R-W

1U WIO with 4 hot-swap 3.5" SAS/SATA (2 NVMe hybrid) bays, up to 2 PCIe 5.0 slots and 1 PCIe 4.0 slot



More details here

Key Applications

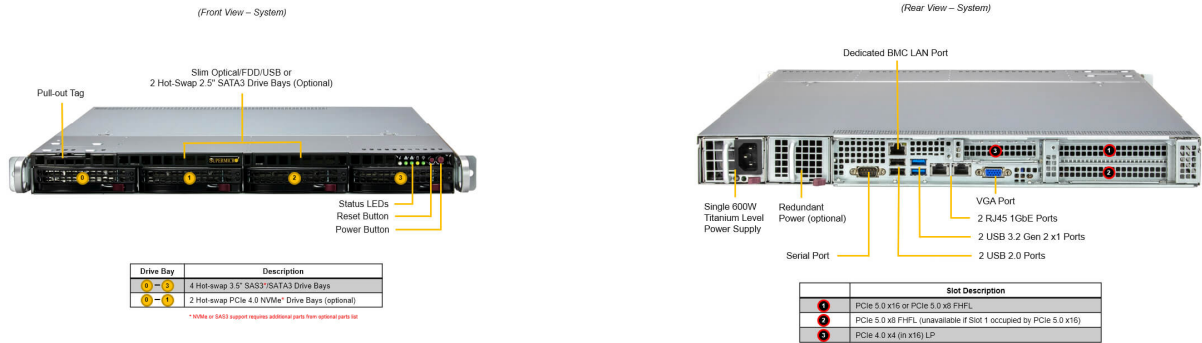
Virtualization, Cloud Computing, Enterprise Server, Data Center Optimized,
Entry GPU server, Rack Workstation,

Key Features

- Single Socket V0 (LGA-1700) supports Intel® Xeon® 6300-series / E-2400 series, Intel® Pentium® processors;
- 4 DIMMs; Up to 128GB of DDR5 ECC UDIMM memory with speeds of up to 4400MHz;
- 1 PCIe 5.0 x16 or 2 PCIe 5.0 x8 (FHFL); 1 PCIe 4.0 x4 (in x16 LP);
- Intel® Ethernet Controller i210 2x 1GbE RJ45;
- Default single Titanium 600W Power Supply; Optional redundant power by adding 1x Power Supply Module;



Form Factor	1U Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 597 x 216 x 856mm (23.5" x 8.5" x 33.7")
Processor	Single V0 (LGA-1700) Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors Up to 8C/16T; Up to 24MB Cache
GPU	Max GPU Count: Up to 1 double-width or 1 single-width GPU Supported GPU: NVIDIA PCIe: L40, T1000, RTX A2000, L4 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 4 DIMM slots/2 Channels Max Memory (2DPC): Up to 128GB 4400MT/s ECC DDR5 UDIMM
Drive Bays Configuration	Default: Total 4 bays • 4 front hot-swap 3.5" SAS*/SATA drive bays Option A: Total 4 bays • 2 front hot-swap 3.5" PCIe 4.0 NVMe*/SAS*/SATA drive bays • 2 front hot-swap 3.5" SAS*/SATA drive bays (*NVMe/SAS support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110) Peripheral Bays: 2 2.5" bays (optional)
Expansion Slots	Default • 2 PCIe 5.0 x8 FHFL slots • 1 PCIe 4.0 x4 (in x16) LP slot Option A • 1 PCIe 5.0 x16 FHFL double-width slot • 1 PCIe 4.0 x4 (in x16) LP slot
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Chipset: Intel® C266 Network Connectivity: 2 RJ45 1GbE with Intel® I210
Input / Output	LAN: 2 RJ45 1 GbE LAN ports 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1) USB: 4 USB 2.0 ports(header) 2 USB 2.0 Type-A ports(rear) 2 USB 3.2 Gen1 ports(Header) 1 USB 3.2 Gen2 Type-A port(Header) 2 USB 3.2 Gen2 Type-A ports(Rear) Video: 1 VGA port Serial: 1 COM port(Rear) 1 COM port(Header)



System Cooling	Fans: 2 AOC cooling Fan(s) (optional) 4 counter-rotation PWM 40x40x56mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	1x 600W Redundant Titanium Level (96%) power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
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	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 6 + 1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 34.5 lbs (15.46 kg) Net Weight: 21.5 lbs (9.75 kg) Available Color: Black
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	Super X13SCW-F
Chassis	CSE-815BTS-R000WNP

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis				
Part Number	MBD-X13SCW-F	CSE-815BTS-R000WNP		
Qty	1	1		
Description	Super X13SCW-F Motherboard	1U Chassis		
Backplane				
Part Number	BPN-NVME5-LA15-S4			
Qty	1			
Description	1U 4-Slot 3.5" Hybrid Backplane for 4x AS3/SATA3/NVME5 S			
Cable				
Part Number	CBL-CDAT-0674	CBL-SAST-1275A-100	CBL-0335L	CBL-PWCD-0160-IS
Qty	1	1	1	2
Description	4 Pin to 4 Pin I2C Cable, 30cm, 26AWG, 4 Wires, Pinout 1-1	Slimline x8 (STR) to 4x SATA, P1 75cm, P2 75cm, P3 90cm	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,70CM,PBF	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
Power Supply				
Part Number	MCP-250-00018-0N	PWS-601A-1R	MCP-250-81502-0N	
Qty	1	1	1	
Description	PWS dummy cover for 1U redundant power supply w/ handle (54.5mm wide)	1U redundant 600W Titanium 54.5x40x322mm power supply	SC815 Redundant Power Distributor Cover	
Air Shroud				
Part Number	MCP-310-81507-0B	MCP-310-81506-0B		
Qty	1	1		
Description	Mylar air shroud for 1U SC815B with X13SCW	Air block for 1U WIO SC815B with X13SEW		
Manual				
Part Number	MNL-2602-QRG			
Qty	1			
Description	511R-W Quick Reference Guide			
Riser Card				
Part Number	RSC-W-68G5	RSC-WR-6		
Qty	1	1		
Description	1U LHS WIO Riser card with one PCIe 5.0 X16 and one PCIe	1U RHS WIO Riser card with one PCIe 4.0 x16 slot,HF,RoHS		
Software				
Part Number	SFT-OOB-LIC			
Qty	1			
Description	License key for enabling OOB BIOS management			
Heatsink / Retention				
Part Number	SNK-P0086P			
Qty	1			
Description	1U Passive HS for Intel Raptor Lake (Catlow) SocketV LGA1700			
*Power Distributor				
Part Number	PDB-PT116-SL8824			
Qty	1			
Description	Based on PDB-PT116-L8824 to optimize 24Pin etc cable lengths			
*Fan Holder				
Part Number	CSE-PT0135	MCP-340-00035-0B		
Qty	1	2		
Description	FAN HOLDER FOR SIX 40X56MM COUNTER ROTATING FANS	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)		
*Peripheral Drive				
Part Number	CSE-PT93L-B			
Qty	1			

Description	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS	
*Fan		
Part Number	FAN-0163L4	
Qty	4	
Description	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan	
*Front Panel		
Part Number	FPB-FP815U	
Qty	1	
Description	815 UIO front control board (U)	
*Drive Tray(s)		
Part Number	MCP-220-00075-0B	
Qty	4	
Description	Black gen 5.5 hot-swap 3.5" HDD tray	
*Rear Window		
Part Number	MCP-240-00202-0N	
Qty	1	
Description	1U WIO rear window to support top-load riser bracket for SC815B,SC116B	
*Rail Set		
Part Number	MCP-290-00016-0N	MCP-290-00054-0N
Qty	1	1set
Description	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N	Rail set, quick/quick, optional for 1U 17.2

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

3.5" to 2.5" Converter Tray(s)		
Part Number	MCP-220-00043-0N	
Qty	-	
Description	Hot-swap Gen-4 3.5" to 2.5" HDD tray, Black	
3.5" to 2.5" NVMe Drive Tray(s)		
Part Number	MCP-220-00138-0B	
Qty	2	
Description	Tool-less Hot-swap Gen-5.5 NVMe 3.5" to 2.5" drive tray, Orange tab, Black	
CacheVault		
Part Number	BTR-CVPM05 + MCP-240-00203-0N (For S3908)	BTR-CV3916-1U1 (For S3908)
Qty	1	1
Description	CacheVault for Broadcom 3908 with SuperCap mounting bracket for PCIe location	CacheVault for Broadcom 3908 with SuperCap mounting in 1U 40x56 fan tray
Cooling Fan		
Part Number	FAN-0163L4	
Qty	2	
Description	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan	
DVD-ROM / DVD-RW		
Part Number	DVM-TEAC-DVD-SBT5	DVM-TEAC-DVDRW-SBT5
Qty	1	1
Description	TEAC slim DVD-ROM SATA drive	PHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory		
Part Number	CDM-USATA-G + 1x CBL-0470L + 1x CBL-0099 (max 1pc)	
Qty	1	

Description	Slim SATA DVD mounting kit	
Front Bezel		
Part Number	CSE-PTFB-813LB	CSE-PTFB-813-02B
Qty	1	1
Description	Black Front Bezel	Black Front Bezel w/ Round Venting Holes
Hot-swap 2.5" kit (DVD slot)		
Part Number	MCP-220-81506-0N + 1x CBL-SAST-1270S (max 1pc) + 1x CBL-0099 (max 1pc)	
Qty	1	
Description	Single 2.5" SAS3 (12Gb/s) hot swap in slim DVD form factor	
Hot-swap 2.5" kit (FDD slot)		
Part Number	MCP-220-81504-0N + 1x CBL-SAST-1270S (max 1pc) + 1x CBL-0099 (max 1pc)	
Qty	1	
Description	Single 2.5" SAS3 (12Gb/s) hot swap in slim FDD form factor	
Inlet Thermal Sensor		
Part Number	MCP-280-00034-0N	
Qty	1	
Description	Inlet Thermal sensor kit with 40cm I2C cable	
NVMe Cable (Drive Bay 0-1)		
Part Number	CBL-MCIO-1260M5Y • eStore (https://store.supermicro.com/mcio-x8-to-x4-str-60cm-lnrv-85ohm-cbl-mcio-1260m5y.html)	
Qty	1	
Description	MCIO (x8 to 2 x4) STR,60CM,85OHM	
Power Supply		
Part Number	PWS-601A-1R	
Qty	1	
Description	Optional redundant power supply	
Software		
Part Number	SFT-DCMS-Single	
Qty	1	
Description	DataCenter Management Package (per node license)	
Storage Control Card and Cable(s)		
Part Number	AOC-S3908L-H8iR-16DD	
Qty	1	
Description	Standard LP, 8 internal ports (12Gb/s) PCIe 4.0 x8, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60	
Storage Control Card and Cable(s) (HBA)		
Part Number	AOC-S3808L-L8iT (/products/accessories/addon/AOC-S3816L-L16iT_S3808L-L8iT.php)	
Qty	1	
Description	Standard LP, 8 internal ports (12Gb/s) PCIe 4.0 x8, 122HDD; HBA	
TPM		
Part Number	AOM-TPM-9672V (/products/accessories/addon/AOM-TPM-9672V.php)	AOM-TPM-9670V
Qty	1	1
Description	TPM 2.0 with 10 pins SPI support, vertical form factor	TPM 2.0, vertical form factor