Storage SuperServer SSG-620P-ACR12L

2U front-loading storage server with 12 hot-swap 3.5" hybrid SAS/SATA bays and PCIe 4.0
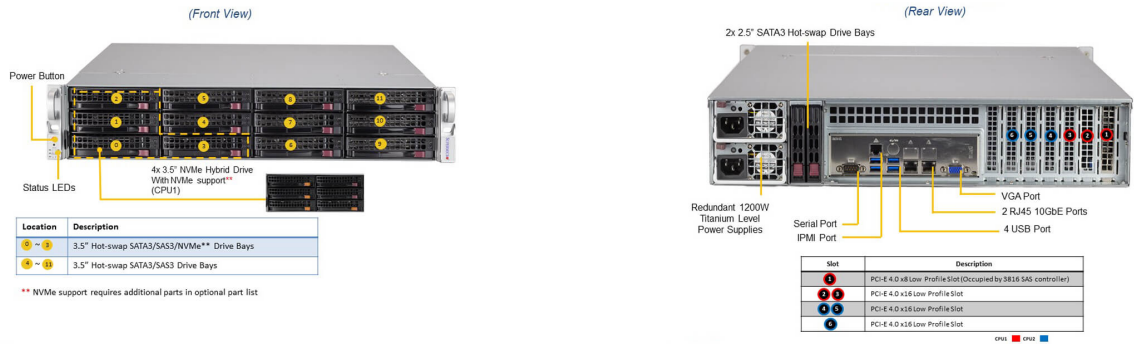
Key Applications

Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database,

Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- 16 ECC DDR4-3200: LRDIMM/RDIMM + 2 Intel® Optane™ Persistent Memory Dedicated Slots;
- 2x 10Gbe;
- 12x 3.5" hot-swap hybrid SATA/SAS drive bays (4 NVMe Hyprid Ports); 2 rear SATA 2.5" slots; onboard 1 M.2 NVMe;
- 3 heavy duty fans with optimal fan speed control; 1 Air Shroud;
- Broadcom® 3816 Controller;

Form Factor	2U Rackmount Enclosure: (17.3" x 3.5" x 25.5") Package: (27" x 12" x 35")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 38C/76T; Up to 57MB Cache per CPU
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 14 bays • 8 front hot-swap 3.5" SAS/SATA drive bays • 4 front hot-swap 3.5" NVMe*/SAS/SATA drive bays • 2 rear hot-swap 2.5" SAS*/SATA drive bays (*NVMe/SAS support may require additional storage controller and/or cables) M.2: 1 M.2 NVMe slot (M-key)
Expansion Slots	Default • 4 PCIe 4.0 x16 LP slots • 1 PCIe 4.0 x8 LP slot
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GBASE-T with Intel® X550
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports USB: 4 USB 3.0 ports(rear) Video: 1 VGA port DOM: 2 SuperDOM (Disk on Module) ports

(Front View)

Power Button

Status LEDs

4x 3.5" NVMe Hybrid Drive
With NVMe support**
(CPU1)

Location	Description
0 ~ 3	3.5" Hot-swap SATA3/SAS3/NVMe** Drive Bays
4 ~ 11	3.5" Hot-swap SATA3/SAS3 Drive Bays

** NVMe support requires additional parts in optional part list

(Rear View)

2x 2.5" SATA3 Hot-swap Drive Bays

Redundant 1200W
Titanium Level
Power Supplies

Serial Port
IPMI Port

VGA Port
2 RJ45 10GbE Ports
4 USB Port

Slot	Description
1	PCI-E 4.0 x8 Low Profile Slot (Occupied by 3816 SAS controller)
2 3	PCI-E 4.0 x16 Low Profile Slot
4 5	PCI-E 4.0 x16 Low Profile Slot
6	PCI-E 4.0 x16 Low Profile Slot

CPU1 ■ CPU2 ■

System Cooling	Fans: 3 Heavy Duty 8cm Fan(s)
Power Supply	2x 1200W Redundant Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 128MB 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
	    4+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: 61 lbs (27.7 kg) Net Weight: 34 lbs (15.4 kg) Available Color: Black
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% () Non-operating Relative Humidity: 5% to 95% ()
Motherboard	**Super X12DPi-NT6**
Chassis	**CSV-826BTS-R1K23LPBP2**