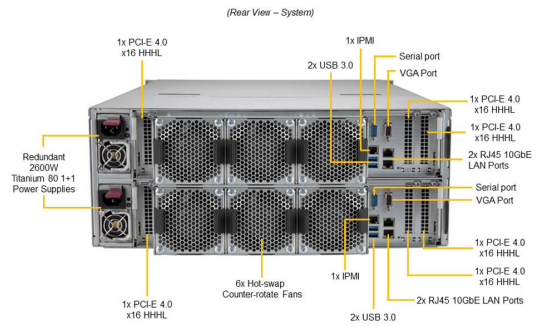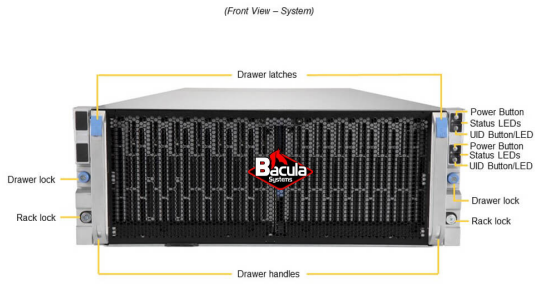# BPSA-640SP-DE1CR60

Key Applications

Government Data Protection

Key Features

- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Per Node;
- 16 ECC DDR4-3200: LRDIMM/RDIMM;
- 3 x PCIe 4.0 x16 HHHL PCIe slots;
- 60 3.5"/2.5" Hot-swap SAS3/SATA3 drives (Each node controls 30 drives);
- 6x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 2600W Redundant Power Supplies Titanium Level (96%);
- Drive Controller support via Broadcom® 3916 or 3616; Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;

Form Factor	4U Rackmount Enclosure: (17.6" x 7" x 34.1") Package: (31.89" x 29.92" x 44.88")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 54MB Cache per CPU Supports 120W - 120W TDP CPUs (Air Cooled)
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays	60x 3.5" hot-swap SATA3/SAS3 drive bays 2x 2.5" 7mm drive bays 2 M.2 NVMe
Expansion Slots	3 PCIe 4.0 x16 LP slot(s)
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2x 10GbE BaseT with X550 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 Dedicated IPMI LAN port 2 RJ-45 10Gbase-T ports USB: 2 USB 3.0 port(s) (2 Rear_USB) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear) DOM: 2 SuperDOM (Disk on Module) port

(Front View – System)

(Rear View – System)

System Cooling	Fans: 6 Heavy Duty 8cm Fan(s)
Power Supply	2600W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 128MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0

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	Height: 7" Width: 17.6" Depth: 34.1" Gross Weight: 170.5 lbs (77.3 kg) Net Weight: 118 lbs (53.5 kg) Packaging: 29.92" x 31.89" x 44.88" Available Color: Black
Operating Environment	ROHS: 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-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
Motherboard	Super X12DSC-6
Chassis	CSV-947STS-R2K63P