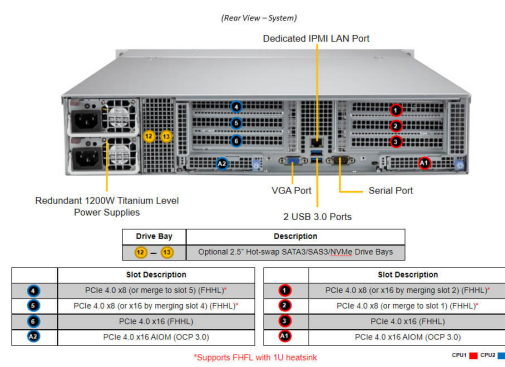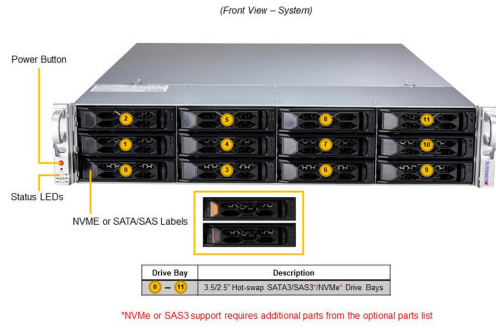# CloudDC SuperServer SYS-620C-TN12R

Key Applications

Web Server, Firewall Application, Data Center Optimized, Value IaaS, Cloud Computing, Compact Server, DNS & Gateway Servers, Firewall Application, CDN, Edge Nodes,

Key Features

- Dual sockets P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors;
- Intel® C621A Chipset;
- 16 DIMMs up to 6TB 3DS ECC DDR4-3200: LRDIMM/RDIMM/Intel® DCPMM;
- 4 PCIe 4.0 x8 FHHL (optional: combine into 2 PCIe 4.0 x16); 2 PCIe 4.0 x16 FHHL; 2 PCIe 3.0 x2 NVMe M.2;
- Dual AIOM (OCP 3.0) slots with NCSI for networking, 1 dedicated IPMI LAN;
- 12x 3.5/2.5" hot-swap hybrid NVMe/SATA/SAS drive bays;
- 3 heavy duty fans with optimal fan speed control, 1 air shroud;
- 1200W redundant Titanium level 100-240Vac and 200-240 Vdc power supplies ;
- 1 VGA, 1 COM, 2 USB 3.0 (rear);

Form Factor	2U Rackmount Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5") Package: 671 x 290 x 871mm (26.4" x 11.4" x 34.3")
Processor	Dual Socket P4 (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU
GPU	Max GPU Count: Up to 2 double-width or 6 single-width GPU(s) Supported GPU: Intel PCIe: Intel Data Center GPU Flex 170 　　　　　　　　NVIDIA PCIe: RTX A5000,A30,A2,RTX A6000,RTX A4500,A16,A100
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	12x 3.5" hot-swap NVMe/SATA/SAS drive bays (12x 3.5" NVMe hybrid)(NVMe drives require additional cables from the optional parts list.) 2x PCIe 3.0 x2 M-Key, 2280
Expansion Slots	4 PCIe 4.0 x8 FHHL slot(s) 2 PCIe 4.0 x16 FHHL slot(s) (Slots 1 and 4 can convert to x16 by merging 2 and 3. Slots 1, 2, 4 and 5 can support FHFL cards with 1U heatsinks. Some slots share PCIe lanes with NVME. FH = Full Height, LP = Low Profile, FL = Full Length, HL = Half Length, DW = Double Width, SW = Single Width)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1/5/10 support (*VROC is required) Chipset: Intel® C621A Network Connectivity: with Advanced IO Module, AIOM (OCP 3.0 NIC, refer to AIOM Network Card(s) under Optional Parts List for options) 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 Dedicated IPMI LAN port USB: 2 USB 3.0 port(s) (2 rear) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear) DOM: 1 SuperDOM (Disk on Module) port

(Front View – System)

Power Button

Status LEDs

NVME or SATA/SAS Labels

Drive Bay	Description
0 — 11	3.5/2.5" Hot-swap SATA3/SAS3*/NVMe* Drive Bays

*NVMe or SAS3 support requires additional parts from the optional parts list

(Rear View – System)

Dedicated IPMI LAN Port

Redundant 1200W Titanium Level Power Supplies

VGA Port

Serial Port

2 USB 3.0 Ports

Drive Bay	Description
12 — 13	Optional 2.5" Hot-swap SATA3/SAS3/NVMe Drive Bays

	Slot Description
4	PCIe 4.0 x8 (or merge to slot 5) (FHHL)*
5	PCIe 4.0 x8 (or x16 by merging slot 4) (FHHL)*
6	PCIe 4.0 x16 (FHHL)
A2	PCIe 4.0 x16 AIOM (OCP 3.0)

	Slot Description
1	PCIe 4.0 x8 (or x16 by merging slot 2) (FHHL)*
2	PCIe 4.0 x8 (or merge to slot 1) (FHHL)*
3	PCIe 4.0 x16 (FHHL)
A1	PCIe 4.0 x16 AIOM (OCP 3.0)

*Supports FHFL with 1U heatsink

CPU1 ■ CPU2 ■

System Cooling	Fans: 3x 8cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud(s)
Power Supply	1200W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM
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	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 CPU: Monitors for CPU Cores, Chipset Voltages, Memory. 　　　8 Phase-switching voltage regulator
Dimensions and Weight	Height: 3.5" (89 mm) Width: 17.2" (437 mm) Depth: 25.5" (647 mm) Gross Weight: 69 lbs (31.3 kg) Net Weight: 35.3 lbs (16 kg) Packaging: 11.4" (H) x 26.4" (W) x 34.3" (D) Available Color: Black
Operating Environment	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 X12DDW-A6
Chassis	CSE-LA26AC12-R1K23AW