

CloudDC SuperServer SYS-621C-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 E (LGA-4677) 5th and 4th Gen Intel® Xeon® Scalable processors;
- 16 DIMMs up to 4TB 3DS ECC DDR5-5600: RDIMM;
- 4 PCIe 5.0 x8 FHHL (optional: combine into 2 PCIe 5.0 x16); 2 PCIe 5.0 x16 FHHL; 2 PCIe 5.0 x4 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);

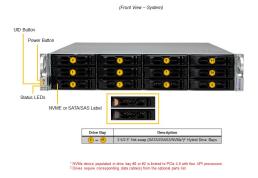


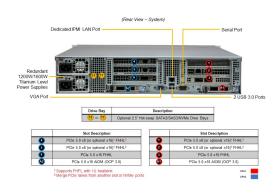
| Form Factor | 2U Rackmount |
|------------------|--|
| | Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5") |
| | Package: 678 x 290 x 876mm (26.7" x 11.4" x 34.5") |
| Processor | Dual Socket E (LGA-4677) |
| | 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors |
| | Up to 60C/120T; Up to 112.5MB 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 140 |
| | NVIDIA PCIe: H100,L40,L40S,RTX A6000 |
| System Memory | Slot Count: 16 DIMM slots |
| | Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM |
| Drive Bays | 12x 3.5" hot-swap NVMe/SATA/SAS drive bays (12x 3.5" NVMe hybrid)(Storage drives require additional cables |
| | from the optional parts list.) |
| | 2x PCIe 5.0 x4 (*VROC is required) |
| | M-Key, 2280 |
| Expansion Slots | 4 PCIe 5.0 x8 FHHL slot(s) |
| | 2 PCIe 5.0 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 | NVMe: NVMe; RAID 0/1/5/10 support (*VROC is required) |
| | SATA: SATA3 (6Gbps) via Intel® C741; RAID 0/1/5/10 support |
| | Chipset: Intel® C741 |
| | Network Connectivity: |
| | with Advanced IO Module, AIOM (OCP 3.0 NIC, refer to AIOM Network Card(s) under Optional Parts List for options) |
| | Note: High TDP 200-400G NICs have support conditions due to thermal requirements. |
| | 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)







| System Cooling | Fans: 3x 8cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud(s) |
|-----------------------|--|
| Power Supply | 2x 1200W Redundant Titanium Level power supplies |
| System BIOS | BIOS Type: AMI 32MB SPI FLASH ROM |
| Management | Redfish API; SuperCloud Composer; 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" (648 mm) Gross Weight: 59 lbs (26.76 kg) Net Weight: 33 lbs (15 kg) Packaging: 11.4" (H) x 26.7" (W) x 34.5" (D) Available Color: Black front & sliver body |
| 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 X13DDW-A |
| Chassis | CSE-LA26TS-R1K23AWP1 |

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis

Part Number MBD-X13DDW-A CSE-LA26TS-R1K23AWP1

Qty

Description Super X13DDW-A Motherboard 2U Chassis

Backplane

Part Number BPN-NVME5-LA26A-S12

Qty

2U 12-Slot 3.5 Description

Cable

CBL-MCIO-1210CM5 CBL-PWCD-0160-IS Part Number

Otv

PWCD.US,NEMA5-15P TO IEC60320 Description MCIO x8 (STR-RVCN, to STR),10CM,LNRV,85OHM,RoHS C13,6FT,16AWG,RoHS/REACH

Parts

Part Number MCP-150-00022-0B

Qty

Rubber pad, 5mm H, 10x10mm Description

Air Shroud

Part Number MCP-310-82625-0B MCP-310-82619-0B

Qty

Sponge air Block sets for CSE-826B and LA26-AW Description Mylar air shroud X13DDW for SCLA26-AW

Manual

Part Number MNL-2524-ORG

Qty

Description 621C-TN12R Quick Reference Guide

Riser Card

Part Number RSC-D2-666G5 RSC-D2R-666G5 Qty

2U LHS DCO Riser card with three PCIe 5.0 $\,$ 2U RHS DCO Riser card with three PCIe 5.0 $\,$ Description

X16 slots.HF. X16 slots.HF.

Part Number SFT-OOB-LIC

Qty

License key for enabling OOB BIOS Description

management

Heatsink / Retention

Part Number SNK-P0088P

Description 2U Passive CPU HS for X13 Intel Eagle

Stream Platform

* Power Supply

Part Number PWS-1K23A-1R

Qty

Description AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb,

336x76x40 mm,HF,RoHS/REACH

* Power Distributor

Part Number PDB-PT826-S4824

Qty

Description Based on PDB-PT826-8824 to add 2pcs

8pin for option support

Part Number

FAN-0206L4

Description 80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers

* Drive Tray(s)

Qty

Part Numbe MCP-220-00184-0B MCP-290-82607-0N

12

Description Black gen-9 tool-less cost-effective 3.5 826B/216B rear dummy cover for 2 X 2.5

* Rear Window

Part Number MCP-240-00170-0N

Qty

Description 2U X12 WIO rear window for SCLA26

* Rail Set

MCP-290-00053-0N Part Number

Qty

Description Rail set, quick/quick, default for 2,3U 17.2"W

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

3108/3908/3916 SuperCap Mount

Part Number MCP-240-00203-0N MCP-240-21747-0N MCP-240-00127-0N

Qty

Description SuperCap mounting bracket for PCIe SuperCap mounting card for AIOM SuperCap mounting tray for 2.5" drive location location

3808 HBA Card

Part Number CBL-SAST-1276F-100 •€Store AOC-S3808L-L8IT

(https://store.supermicro.com/su (/products/accessories/addon/AO C-S3816L-L16iT S3808L-L8iT.php

permicro-slimline-x8-to-2xslimline-x4-76cm-cable-cbl-sast-1276f-100.html)

Qty

Description Slimline x8 (LE) to 2x Slimline x4 Standard LP, 8 internal ports (12Gb/s) Gen-(STR),76/76CM, Alternative: CBL-SAST-4, 16HDD; HBA;

3816 HBA Card

Part Number CBL-SAST-1265F-100 CBL-SAST-1276F-100 **€Store** AOC-S3816L-L16IT (https://store.supermicro.com/su permicro-slimline-x8-to-2xslimline-x4-76cm-cable-cbl-sast-1276f-100.html) Qty Description Slimline x8 (STR) to Slimline x4 Slimline x8 (LE) to 2x Slimline x4 Standard LP, 16 internal ports (12Gb/s) (STR),64CM (STR),76/76CM, Alternative: CBL-SAST-Gen-4, 122HDD: HBA: 1264F-100 (64 CM) 3908 RAID Card Part Number AOC-S3908L-H8IR-16DD CBL-SAST-1276F-100 • eStore (https://store.supermicro.com/su (/products/accessories/addon/AO permicro-slimline-x8-to-2x-C-S3908L-H8IR S3916Lslimline-x4-76cm-cable-cbl-sast-H16IR.php) 1276f-100.html) Oty Slimline x8 (LE) to 2x Slimline x4 Standard LP, 8 internal ports (12Gb/s) Gen-Description (STR),76/76CM , Alternative: CBL-SAST-4, 122HDD; RAID 0, 1, 5, 6, 10, 50, 60; 1264F-100 (64 CM) 3908/3916 CacheVaul Part Number BTR-CVPM05 Qty Description CacheVault for Broadcom 3908/3916 (requires a SuperCap mount) 3916 RAID Card CBL-SAST-1265F-100 Part Number CBL-SAST-1276F-100 €Store AOC-S3916L-H16IR-32DD (https://store.supermicro.com/su (/products/accessories/addon/AO permicro-slimline-x8-to-2x-C-S3908L-H8IR S3916Lslimline-x4-76cm-cable-cbl-sast-H16IR.php) 1276f-100.html) Otv Description Slimline x8 (STR) to Slimline x4 Slimline x8 (LE) to 2x Slimline x4 Standard LP, 16 internal ports (12Gb/s) (STR),76/76CM , Alternative: CBL-SAST-(STR),64CM Gen-4, 32HDD; RAID 0, 1, 5, 6, 10, 50, 60; 1264F-100 (64 CM) Part Number AOC-SLG4-2H8M2 Qty Low Profile PCIe x8 add-on card supports Description 2 PCIe 4.0 x4 M-Key M.2 NVMe/SATA Modules; RAID 0,1 AIOM Network Card(s) Part Number AOC-A25G-m2SM AOC-ATG-i2TM AOC-A25G-b2SM AOC-ATG-i2T2SM AOC-A100G-b2CM !/products/accessories/addon/AQ !/products/accessories/accessories/addon/AQ !/products/accessories/accessories/addon/AQ !/products/accessories/acce C-ATG-i2T.php) <u>C-A25G-b2S.php</u>) C-ATG-i2T2SM.php) C-A100G-b2CM.php) AOC-ATG-i2SM AOC-ATGC-i2TM AOC-ATG-b2TM AOC-AG-i4SM AOC-AG-i4M (/products/accessories/addon/AO (/products/accessories/addon/AO C-AG-i4S.php) C-AG-i4.php) AOC-A25G-i2SM AOC-A25G-i4SM AOC-ATG-i4SM AOC-AG-i2M AOC-AH25G-m2S2TM (/products/accessories/addon/AO (/products/accessories/addon/AO C-AG-i2.php) C-AH25G-m2S2TM.php) Qty OCP 3.0 AIOM NIC, 2x 25GbE SFP28, PCIe OCP 3.0 AJOM NIC, 2x 10GbE RJ45, PCIe 3.0 OCP 3.0 AJOM NIC, 2x 25GbE SFP28, PCIe OCP 3.0 AIOM NIC, 4x 10GbE RJ45 & SFP+, OCP 3.0 AIOM NIC, 2x 100GbE OSFP28, Description x8, Mellanox® CX-6 LX x4, Intel® X550-AT2 x8, Broadcom® BCM57414 PCIe x8, Intel® X710-TM4 PCIe 4.0 x16, Broadcom® BCM57508 OCP 3.0 AIOM NIC, 2x 10GbE SFP+, PCIe 3.0 OCP 3.0 AIOM NIC, 2x 10GbE RJ45, PCIe 3.0 OCP 3.0 AIOM NIC, 4x 1GbE SFP, PCIe 2.1 x8, Intel® X710-BM2 x4, Intel® X710-BM2 x4, Intel® X710-BM2 OCP 3.0 AIOM NIC, 2x 10GbE RJ45, PCIe 3.0 OCP 3.0 AIOM NIC, 4x 1GbE RJ45, PCIe 2.1 x4, Broadcom® BCM57416 x4, Intel® i350-AM4 OCP 3.0 AIOM NIC. 2x 25GbE SFP28, PCIe OCP 3.0 AIOM NIC. 4x 25GbE SFP28. PCIe OCP 3.0 AIOM NIC. 2x 1GbE RJ45. PCIe 2.1 OCP 3.0 AIOM NIC. 4x 10GbE SFP+, PCIe 3.0 OCP 3.0 AIOM NIC. 2x 25GbE SFP28 & 2x x8,Intel® E810-XXVAM2 x8, Intel® E810-CAM1 x4, Intel® i350-AM2 x8, Intel® XL710-BM1 10GbE RJ45, PCIe x8/x4, Mellanox® CX4 Lx EN & Intel® X550-AT2, Cable Management Arm MCP-120-82601-0N Part Number MCP-290-00073-0N •€Store (https://store.supermicro.com/2u -3u-4u-cable-management-armmcp-290-00073-0n-1.html) Otv Description Supermicro Cable Management Arm for Cable arm adapter for SCLA26-AW 2U, 3U and 4U chassis **GPU Power Cable** Part Number CBL-PWEX-1040 &Store CBL-PWEX-1361RF-10 (https://store.supermicro.com/su permicro-8-pin-to-two-6-2-pin-5cm-power-gpu-cable-cbl-pwex-1040.html) Qty Description PWYCB.GPU.2x4M/CPU to two 12VHPWR 2x6+4S to ATX 2X4M P4 2 10cm (2x3F+2x1F)/PCIe,P4.2, 5CM GPU Support (FL) MCP-310-82621-0N Part Number SNK-P0087P **@Store** (https://store.supermicro.com/1u -passive-cpu-cooler-x13-snkp0087p.html)

Description
Intel VROC Key

GPU Support (LP)

1U Passive CPU Heat Sink for X13

Mylar air block set X12DDW for SCLA26-AW

Generation

MCP-310-82614-0B

Plastic air shroud X13DDW for SCLA26-AW

Qty

Description

Part Number Qty Part Number AOC-VROCSTNMOD AOC-VROCPREMOD AOC-VROCINTMOD (/products/accessories/addon/AO (/products/accessories/addon/AO (/products/accessories/addon/AO C-VROCxxxMOD.php) @Store C-VROCxxxMOD.php) C-VROCxxxMOD.php) (https://store.supermicro.com/su permicro-vroc-premiummodule.html) Qty Intel VROC Premium, RAID 0, 1, 5, 10 Description Intel VROC Standard, RAID 0, 1, 10 Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only) NC-SI Cable CBL-PWEX-1099-34 Part Number Otv Description FLAT.IDC 2X11F/P1.27 TO IDC 2X11F/P1.27,NCSI,0.5A,35CM **NVMe Cables Kit** CBL-KIT-621C-TN12R-12 Part Number Otv Description Supports 12 NVMe drives. This kit cannot support rear NVMe drives. Includes: , 4x CBL-MCIO-1235M5FY (NVMe drive slots # 2-5, 8-11) , 2x CBL-MCIO-1255M5FH (NVMe drive slots # 0-1,6-7) Power Supply DC Part Number PWS-1K11P-1R •€Store (https://store.supermicro.com/10 10w-1u-pws-1k11p-1r.html) Qty Description 1010W Redundant DC Power Supply Power Supply Upgrade Part Number PWS-1K68A-1R •€Store (https://store.supermicro.com/16 00w-1u-pws-1k68a-1r.html) Qty Description 1600W Redundant Titanium Power Supply Rear Window NVMe Drive Kit CBL-MCIO-1235M5FY CBL-PWEX-1034Z-30 Part Number MCP-220-82623-0N •@Store (https://store.supermicro.com/m cp-220-82623-0n-nvme-kit.html) Qty Description MCIO x8 (STR) to 2x MCIO x4 (STR), 35CM 2 ATX 1x4,P4.2 to MicroHi 2x(4+2),30cm, Rear Window Module for 2x 2.5" NVMe 16AWG Drives PCIE Gen 5 Rear Window SATA Drive Kit Part Number MCP-220-82616-0N (/products/accessories/drivekit/M <u>CP-220-82616-0N.php</u>) @Store (https://store.supermicro.com/m cp-220-82616-0n-rear-drivekit.html) Qty Description Rear Window Module for 2x 2.5" SATA/SAS SATA Cables Kit Part Number CBL-KIT-SATA-CDC-1 Qty Description Supports 10-12 SATA drives. Kit includes: , 1x CBL-SAST-1274LP-100 (SATA drive slots # 0-7) , 1x CBL-SAST-1285LP-100 (SATA drive slots #8-11) Part Number SFT-DCMS-Single SFT-SDDC-SINGLE Qty Description Supermicro System Managment Software Supermicro Data Center Monitor License TPM security module AOM-TPM-9672V-FIPS AOM-TPM-9672V AOM-TPM-9670V AOM-TPM-9670V-S-FIPS Part Number Qty

Software

SPI capable TPM 2.0 with Infineon 9672 SPI capable TPM 2.0 with Infineon 9672 SPI capable TPM 2.0 with Infineon 9670

SPI capable TPM 2.0 with Infineon 9670 Description controller w/ FIPS; vertical form factor controller; vertical form factor controller; vertical form factor controller w/ FIPS; vertical form factor

Global SKU (/en/products/SMC_global_skus)