

SuperServer 1029P-WTRT



Integrated Board



[./products/motherboard/Xeon/C620/X11DDW-](#)

[NT.cfm](#)

[Super X11DDW-NT](#) ([./products/motherboard/Xeon/C620/X11DDW-NT.cfm](#)).

Views: | [Angled View](#) ([./a_images/products/views/1029P-WTRT_angle.jpg](#)). |

[Top View](#) ([./a_images/products/views/1029P-WTRT_top.jpg](#)). |

[Front View](#) ([./a_images/products/views/1029P-WTRT_front.jpg](#)). | [Rear View](#)

([./a_images/products/views/1029P-WTRT_rear.jpg](#)). |

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#).

[Tested M.2 List](#) ([./en/support/resources/m2ssd?SystemID=85691&ProductName=SS1029P-WTRT](#)).

[NVMe Options](#) | [Manuals](#)

[OS Certification Matrix](#) ([./en/support/resources/certification/SYS-1029P-WTRT](#)).

[Quick-References Guide](#)

[Compatible GPU List](#) ([./en/support/resources/gpu](#)). | [Drive Options](#)

[Network Card \(AOC\) Matrix](#) ([./en/support/resources/aoc/standard?show=SELECT&type=WIO](#)).

Key Applications

- Web Server, Firewall Apps.
- Corporate-Wins, DNS, Print, Login
- Gateway, provisioning servers
- Compact Network Appliance
- Cloud Computing



[./Global_S](#)

Key Features

1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)†
2. 12 DIMMs; up to 3TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM††
3. 2 PCI-E 3.0 x16 (FHHL) slots, 1 PCI-E 3.0 x8 (LP) slot, 1 PCI-E 3.0 x16 for Add-on-Module (Support SAS3 Storage controller), 1 PCI-E 3.0 x4 NVMe M.2 slot
4. 10 Hot-swap 2.5" SAS/SATA HDD bays (default 8 SATA3, 2 NVMe or SATA3)
5. 2x 10GBase-T LAN ports via Intel C622
6. 1 VGA, 6 USB 3.0 (4 rear, 2 front)
7. 2 SuperDOM (Disk on Module) ports
8. 750W Redundant Power Supplies **Platinum Level** High-efficiency

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-1029P-WTRT

SuperServer 1029P-WTRT (Black)

Motherboard

Super X11DDW-NT

(</products/motherboard/Xeon/C620/X11DDW-NT.cfm>).

Processor

CPU

Dual Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[‡],

Dual UPI up to 10.4GT/s

Support CPU TDP 70-165W*

Cores

Up to 28 Cores

Note

* Certain high frequency optimized CPUs within 165W TDP are not supported, such as Intel Gold 6144, 6146, 6244, 6246, 6250 and 6256.

Note

[‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R).

Extended thermal solutions may be required to support CPUs higher than 165W TDP, please contact Supermicro Technical Support for additional information.

System Memory

Memory Capacity

12 DIMM slots

Up to 3TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM

Supports Intel® Optane™ DCPMM^{††}

Memory Type

2933[†]/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

Note

[†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

^{††} Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

Chipset

Intel® C622 chipset

SATA

SATA3 (6Gbps); RAID 0, 1, 5, 10

Network Controllers

Dual LAN with 10Gbase-T from C622

IPMI

Support for Intelligent Platform Management Interface v.2.0

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Video

ASPEED AST2500 BMC

Input / Output

SATA

8 SATA3 (6 Gbps) ports and 2 NVMe/SATA3 hybrid ports

LAN

2 RJ45 10GBase-T ports

1 RJ45 Dedicated IPMI LAN port

USB

6 USB 3.0 ports (4 rear, 2 front via header)

Video

1 VGA port

Chassis

Form Factor

1U Rackmount

Model

[CSE-116AC2-R706WB2 \(/products/chassis/1U/116/SC116/R706WB2.cfm\)](/products/chassis/1U/116/SC116/R706WB2.cfm)

Dimensions and Weight

Width

17.2" (437mm)

Height

1.7" (43mm)

Depth

23.5" (597mm)

Gross Weight

46 lbs (20.9kg)

Available Colors

Black

Front Panel

Buttons

Power On/Off button

UID button

LEDs

Power status LED

HDD activity LED

Network activity LEDs

Universal Information (UID) LED

Expansion Slots

PCI-Express

2 PCI-E 3.0 x16 (FHHL) slots

1 PCI-E 3.0 x8 (LP) slot

1 PCI-E 3.0 x16 for Add-on-Module (AOM)

1 PCI-E 3.0 x4 NVMe M.2 slot

(Both CPUs need to be installed for full access to PCI-E s onboard controllers. See manual block diagram and [AOC Support \(/products/nfo/UIO.cfm?show=AOCsupport\)](/products/nfo/UIO.cfm?show=AOCsupport) fo details.)

Drive Bays

Hot-swap

8 SATA3 (6Gbps) ports and 2 NVMe/SATA3 hybrid ports (connected to on-board storage controller)

Backplane

SAS/SATA HDD Backplane

System Cooling

Fans

4 Counter-rotating 4cm PWM fans, 2 fans for AOC cooling

AC/DC240V Input Redundant Power Supply

700W/750W Redundant Power Supplies with PMBus

Total Output Power

700W/750W

Dimension

(W x H x L)

54.5 x 40.25 x 320 mm

DOM

2 SuperDOM ([/SATA/DOM/](#)) (Disk on Module) ports

System BIOS

BIOS Type

AMI 32Mb SPI Flash ROM

Management

Software

Intel® Node Manager

[IPMI 2.0 \(/solutions/IPMI.cfm\)](#),

KVM with dedicated LAN

[SSM \(/solutions/SMS_SSM.cfm\)](#), [SPM](#)

[\(/solutions/SMS_SPM.cfm\)](#), [SUM](#)

[\(/solutions/SMS_SUM.cfm\)](#),

[SuperDoctor® 5 \(/solutions/SMS_SD5.cfm\)](#),

Watch Dog

Power Configurations

ACPI / APM Power Management

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

Parts List

Input

100 - 140Vac / 8 - 6A / 50-60Hz

200 - 240Vac / 4.5 - 3.8A / 50-60Hz

200 - 240Vdc / 4.5 - 3.8A (CCC Only)

+12V

Max: 58A / Min: 0.5A (100 - 140Vac)

Max: 62A / Min: 0.5A (200 - 240Vac)

Max: 62A / Min: 0.5A (200 - 240Vdc)

(CB/CCC Only)

+5V sb

Max: 3A / Min: 0A

Output Type

Gold Finger Connector Mating with Molex 45984-4343

Certification



(<http://www.plugloadsolutions.com/80PlusPowerSupplies?id=69&type=1>).

Platinum Certified

[[Test Report \(/products/powersupply/80PLUS/80PLUS706P-1R.pdf\)](#).]

Operating Environment

RoHS

RoHS Compliant

Environmental Spec.

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)

Certain products may not be available in your region

[Global SKU \(/en/products/SMC_global_skus\)](#)
