

## SuperServer 6019P-WTR



### Integrated Board



[\(/products/motherboard/Xeon/C620/X11DDW-L.cfm\)](https://products/motherboard/Xeon/C620/X11DDW-L.cfm)

[Super X11DDW-L \(/products/motherboard/Xeon/C620/X11DDW-L.cfm\)](https://products/motherboard/Xeon/C620/X11DDW-L.cfm)

**Views:** | [Angled View \(/a\\_images/products/views/6019P-WTR\\_angle.jpg\)](#) |  
| [Top View \(/a\\_images/products/views/6019P-WTR\\_top.jpg\)](#) |  
| [Front View \(/a\\_images/products/views/6019P-WTR\\_front.jpg\)](#) | [Rear View \(/a\\_images/products/views/6019P-WTR\\_rear.jpg\)](#) |

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

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=85693&ProductName=SS6019P-WTR\)](#)

[Manuals](#)

[OS Certification Matrix \(/en/support/resources/certification/SYS-6019P-WTR\)](#)

[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 Features

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

1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)<sup>‡</sup>
2. 12 DIMMs; up to 3TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM<sup>††</sup>
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. 4 Hot-swap 3.5" SAS3/SATA3 drive bays
5. 2 1GbE LAN ports via Intel C621
6. 1 VGA, 4 USB 3.0 (rear)
7. 750W Redundant Power Supplies **Platinum Level** High-efficiency



[\(/Global\\_S](#)

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

## Specifications

## Product SKUs

### SYS-6019P-WTR

SuperServer 6019P-WTR (Black)

---

## Motherboard

### Super X11DDW-L

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

---

## Processor/Cache

### CPU

Dual Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors<sup>‡</sup>,

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

<sup>‡</sup> 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<sup>†</sup> RDIMM/LRDIMM

Supports Intel® Optane™ DCPMM<sup>††</sup>

### Memory Type

2933<sup>†</sup>/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

### Note

<sup>†</sup> 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

<sup>††</sup> Cascade Lake only. Contact your Supermicro sales rep for more info.

---

## On-Board Devices

### Chipset

Intel® C621 chipset

### SATA

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

### Network Controllers

Dual LAN with Gigabit Ethernet from C621

### 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

4 SATA3 (6 Gbps) ports

### LAN

2 RJ45 Gigabit Ethernet ports

1 RJ45 Dedicated IPMI LAN port

### USB

4 USB 3.0 ports (rear)

### Video

1 VGA port

## Chassis

### Form Factor

1U Rackmount

### Model

**[CSE-815TQC-R706WB2 \(/products/chassis/1U/815/SC81!R706WB2.cfm\)](/products/chassis/1U/815/SC81!R706WB2.cfm)**

---

## Dimensions and Weight

### Width

17.2" (437mm)

### Height

1.7" (43mm)

### Depth

25.6" (650mm)

### 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 [AO Support \(/products/nfo/UIO.cfm?show=AOCsupport\)](/products/nfo/UIO.cfm?show=AOCsupport) fo details.)**

---

## Drive Bays

### Hot-swap

4 Hot-swap 3.5" SATA3 drive bays

---

## Backplane

SAS/SATA HDD Backplane

---

## System Cooling

### Fans

4 Counter-rotating 4cm PWM fans

---

## 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 \(/en/products/SMC\\_global\\_skus\)](#)

---