

# SuperStorage 6019P-ACR12L+



Integrated Board



Super X11DDW-NT

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### Key Features

- High Density Storage
- Object Storage 1U
- Scale-out Storage
- Ceph / Hadoop
- Big Data Analytics

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. 3 PCI-E 3.0 x16 slots, 1 PCI-E 3.0 x4 NVMe M.2 slot
4. 12 Hot-swap 3.5" SAS3/SATA3, 4 Hot-swap 2.5" 7mm NVMe/SATA drive bays
5. 2x 10GBase-T ports via Intel C622
6. IPMI 2.0 + KVM with Dedicated LAN
7. 1 VGA, 4 USB 3.0 (rear)
8. Internal Cable Arm
9. 800W Redundant Power Supplies **Platinum Level Certified**

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

# Specifications

## Product SKUs

|                   |                                      |
|-------------------|--------------------------------------|
| SSG-6019P-ACR12L+ | ■ SuperStorage 6019P-ACR12L+ (Black) |
|-------------------|--------------------------------------|

## Motherboard

Super X11DDW-NT

## Processor/Cache

|       |                                                                                                                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU   | ■ Dual Socket P (LGA 3647)<br>■ 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors†, Dual UPI up to 10.4GT/s<br>■ Support CPU TDP up to 205W†††                                             |
| Cores | ■ Up to 28 Cores                                                                                                                                                                                                       |
| Note  | † BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)<br>††† 205W CPU support for high performance up to 32°C. 75W-165W CPU support from 10°C ~ 35°C. |

## System Memory

|                 |                                                                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory Capacity | ■ 12 DIMM slots<br>■ Up to 3TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM<br>■ 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<br>†† 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 Intel C622                                                                                        |
| IPMI                | ■ Support for Intelligent Platform Management Interface v.2.0<br>■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support |
| Video               | ■ ASPEED AST2500 BMC                                                                                                             |

## Input / Output

|       |                                                                  |
|-------|------------------------------------------------------------------|
| LAN   | ■ 2 RJ45 10GBase-T LAN ports<br>■ 1 RJ45 Dedicated IPMI LAN port |
| USB   | ■ 4 USB 3.0 ports (rear)<br>■ 2 USB 2.0 ports (front)            |
| Video | ■ 1 VGA port                                                     |
| TPM   | ■ 1 TPM Header                                                   |

## System BIOS

|           |              |
|-----------|--------------|
| BIOS Type | ■ UEFI 256Mb |
|-----------|--------------|

## Management

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Software             | ■ Intel® Node Manager<br>■ IPMI 2.0<br>■ KVM with dedicated LAN<br>■ SSM, SPM, SUM<br>■ SuperDoctor® 5<br>■ Watch Dog |
| Power Configurations | ■ ACPI / APM Power Management                                                                                         |

## PC Health Monitoring

|             |                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------|
| CPU         | ■ Monitors for CPU Cores, Chipset Voltages, Memory.<br>■ 4+1 Phase-switching voltage regulator                          |
| FAN         | ■ Fans with tachometer monitoring<br>■ Status monitor for speed control<br>■ Pulse Width Modulated (PWM) fan connectors |
| Temperature | ■ Monitoring for CPU and chassis environment<br>■ Thermal Control for fan connectors                                    |

## Chassis

|             |                     |
|-------------|---------------------|
| Form Factor | ■ 1U Rackmount      |
| Model       | ■ CSE-802TS-R804WBP |

## Dimensions and Weight

|                  |                                                                    |
|------------------|--------------------------------------------------------------------|
| Width            | ■ 17.6" (447mm)                                                    |
| Height           | ■ 1.7" (43mm)                                                      |
| Depth            | ■ 37.40" (950mm)**                                                 |
| Weight           | ■ Net Weight: 65 lbs (29.5 kg)<br>■ Gross Weight: 80 lbs (36.3 kg) |
| Available Colors | ■ Black                                                            |

## Front Panel

|         |                                                                     |
|---------|---------------------------------------------------------------------|
| Buttons | ■ Power On/Off button<br>■ System Reset button                      |
| LEDs    | ■ Power status LED<br>■ HDD activity LED<br>■ Network activity LEDs |

## Expansion Slots

|             |                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------|
| PCI-Express | ■ 3 PCI-E 3.0 x16 slots<br>■ 1 PCI-E 3.0 x4 NVMe M.2 slot<br>■ AOM slot (AOM Broadcom 3216 SAS3 IT Mode) |
|-------------|----------------------------------------------------------------------------------------------------------|

## Drive Bays

|          |                                                                                        |
|----------|----------------------------------------------------------------------------------------|
| Hot-swap | ■ 12 Hot-swap 3.5" SAS3/SATA3 drive bays<br>■ 4 Hot-swap 2.5" 7mm NVMe/SATA drive bays |
|----------|----------------------------------------------------------------------------------------|

## System Cooling

|      |                                                       |
|------|-------------------------------------------------------|
| Fans | ■ 6x 40x40x56mm 20.5K-17.6K RPM Counter-rotating fans |
|------|-------------------------------------------------------|

## Power Supply

|                                          |                                                                                                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------|
| 800W Redundant Power Supplies with PMBus |                                                                                                      |
| Total Output Power                       | ■ 800W                                                                                               |
| Dimension (W x H x L)                    | ■ 54.5 x 40.25 x 220 mm                                                                              |
| Input                                    | ■ 750W: 100-127Vac / 10A<br>■ 800W: 200-240Vac / 5.5A<br>■ 800W: 230-240Vdc / 5.5A                   |
| +12V                                     | ■ Max: 62.5A /Min: 0.5A (100-127Vac)<br>■ Max: 66.6A /Min: 0.5A (200-240Vac, 230-240Vdc)             |
| +5Vsb                                    | ■ Max: 4A /Min: 0A                                                                                   |
| Output Type                              | ■ Gold Finger                                                                                        |
| Certification                            |  Platinum Level |

## Operating Environment

|                     |                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS                | ■ RoHS Compliant                                                                                                                                                                                                                                |
| Environmental Spec. | ■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)<br>■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>■ Operating Relative Humidity: 8% to 90% (non-condensing)<br>■ Non-operating Relative Humidity: 5% to 95% (non-condensing) |



Parts List

Parts List - (Items Included)

|                       | Part Number       | Qty | Description                                                                                 |
|-----------------------|-------------------|-----|---------------------------------------------------------------------------------------------|
| Motherboard / Chassis | MBD-X11DDW-NT     | 1   | Super X11DDW-NT Motherboard                                                                 |
|                       | CSE-802TS-R804WBP | 1   | 1U Chassis                                                                                  |
| Add-on Card / Module  | AOM-S3216-L-2-P   | 1   | SAS 16-port mezzanine controller based on Broadcom 3216 IOC.                                |
| Backplane             | BPN-NVME3-802N-S4 | 1   | 4-Port Hybrid Backplane Supports 4 x 2.5                                                    |
| Backplane             | BPN-SAS3-802A-2   | 3   | 4-Port Backplane Supports 4 x 3.5" SAS/SATA HDD,HF,RoHS                                     |
| Cable 1               | CBL-0174L         | 2   | PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,14AWG,15A,125V,RoHS/REACH                             |
| Cable 2               | CBL-CDAT-0930     | 1   | CBL, 7PIN TO 7PIN,P1.5/1.0mm,17.2CM,26/28AWG,RoHS                                           |
| Cable 3               | CBL-PWCD-0174-IS  | 2   | PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,14AWG,RoHS/REACH                                      |
| Cable 4               | CBL-PWEX-1056     | 1   | BPN PWR,2P/P3.0 to 3P/P3.0, 12V, 60CM,18AWG, 6A/pin, -20~80C, RoHS                          |
| Cable 5               | CBL-SAST-0830     | 4   | OcuLink v 1.0,INT,PCIe NVMe SSD,Passive Latch, 80                                           |
| Cable 6               | CBL-SAST-0831     | 1   | OcuLink v 1.0,INT,PCIe NVMe SSD, Passive Latch, to MiniSAS 95CM,32AWG                       |
| Cable 7               | CBL-SAST-1028     | 1   | SLIMLINE SAS, INT,Passive Latch,91.9CM, power x4, 17/19.8CM                                 |
| Front Panel           | FPB-802A-LED12    | 1   | SC802 front HDD LED board,RoHS                                                              |
| Parts                 | MCP-150-00015-0B  | 2   | Rubber pad, 3.0mm H, 10x10mm                                                                |
| Riser Card            | RSC-R1UW-2E16     | 1   | 1U LHS WIO Riser card with two PCI-E x16 slots                                              |
| Riser Card            | RSC-WR-6          | 1   | 1U RHS WIO Riser card with one PCI-E 4.0 x16 slot,HF,RoHS                                   |
| Heatsink / Retention  | SNK-P0067PS       | 2   | 1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism |
| * Power Supply        | PWS-804P-1R       | 2   | 1U 800W 100-240VAC/50-60Hz, and DC240V input                                                |
| * Power Distributor   | PDB-PT802-8824    | 1   | 1U Power Distributor Board for SC802 support up to 800W.,RoH                                |

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

|                           | Part Number                        | Qty | Description                                               |
|---------------------------|------------------------------------|-----|-----------------------------------------------------------|
| Converter Trays           | MCP-220-80203-0N                   | -   | 3.5" to 2.5" converter tray for SC802 chassis             |
| Network Card(s)           | AOC-SGP-i2                         | -   | Standard LP, 2x GbE RJ45, PCI-E x4, Intel® i350AM2        |
|                           | AOC-SGP-i4                         | -   | Standard LP, 4x GbE RJ45, PCI-E x4, Intel® i350           |
|                           | AOC-SG-i2                          | -   | Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB        |
|                           | AOC-SG-i4                          | -   | Standard LP, 4x GbE RJ45, PCI-E x4, Intel® 82576EB        |
|                           | AOC-STG-b4S                        | -   | Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom® BCM57840S |
|                           | AOC-STGN-i2S                       | -   | Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82599ES      |
|                           | AOC-STGN-i1S                       | -   | Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel® 82599ES      |
|                           | AOC-STG-i2T                        | -   | Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel® X540         |
|                           | AOC-STG-i2                         | -   | Standard LP, 2x 10GbE CX4, PCI-E x8, Intel® 82598EB       |
| Global Services & Support | <u>OS4HR3/2/1</u>                  | -   | 3/2/1-year onsite 24x7x4 service                          |
|                           | <u>OSNBD3/2/1</u>                  | -   | 3/2/1-year onsite NBD service                             |
| Software                  | <u>SFT-OOB-LIC</u> • <i>eStore</i> | 1   | OOB Management Package (per node license)                 |
| Software                  | <u>SFT-DCMS-Single</u>             | 1   | DataCenter Management Package (per node license)          |