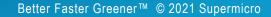


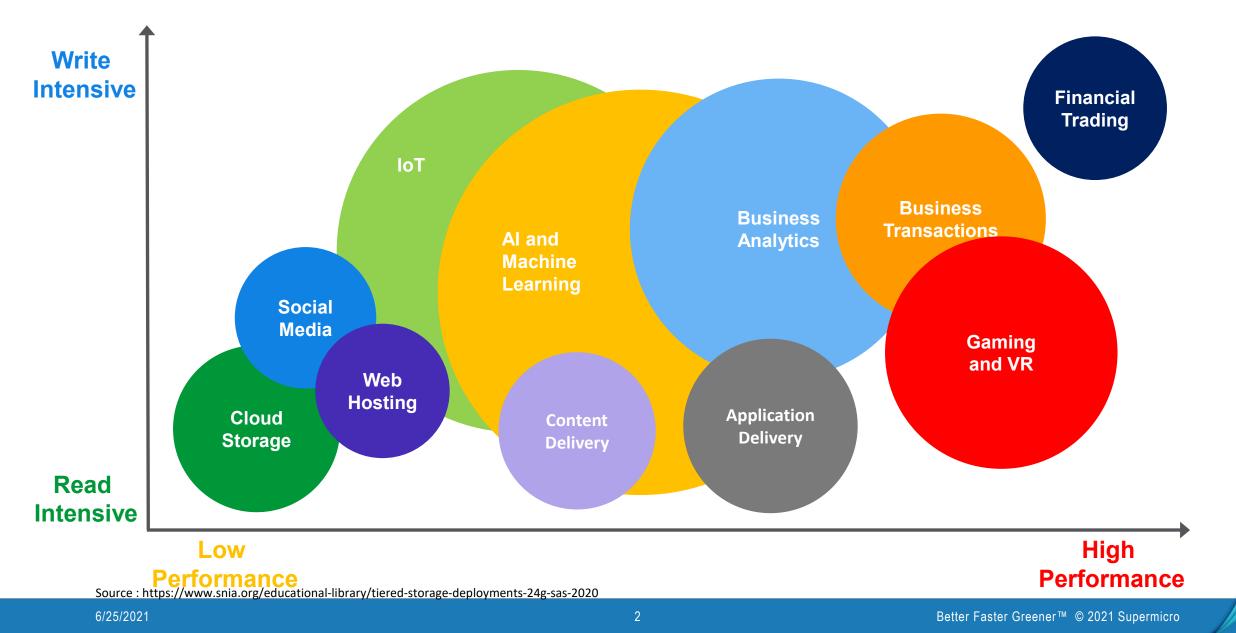
SuperStorage 2021 Product Roadmap

S. PERSON \$

SSG | June 2021



Data Center Storage Applications Characteristics



Data Center Storage Tiered Requirements



PERMIC

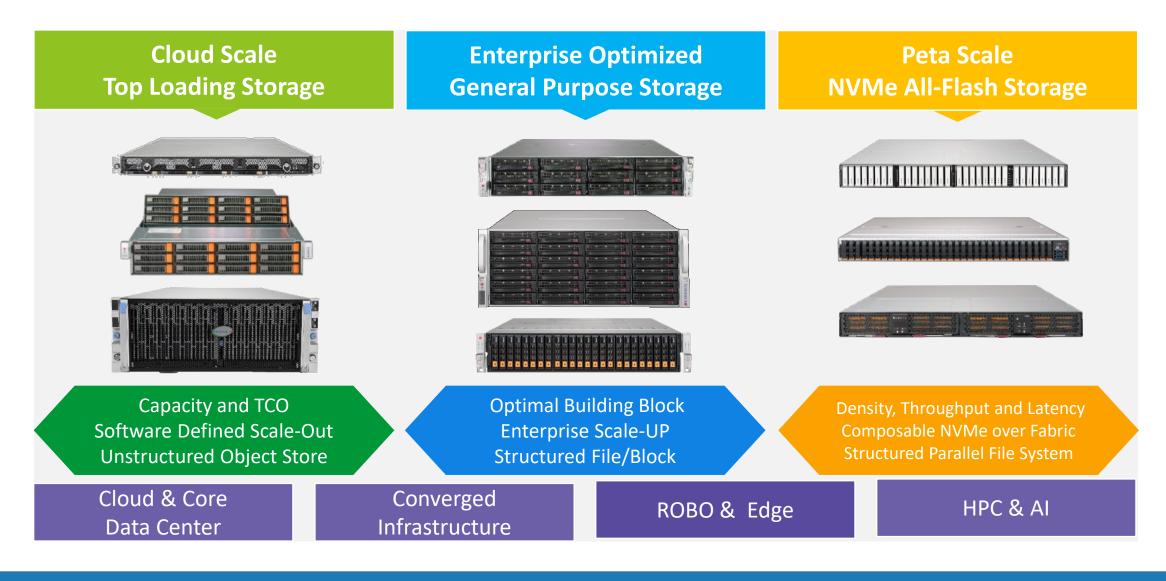
SuperStorage Product Portfolio





SuperStorage Portfolio



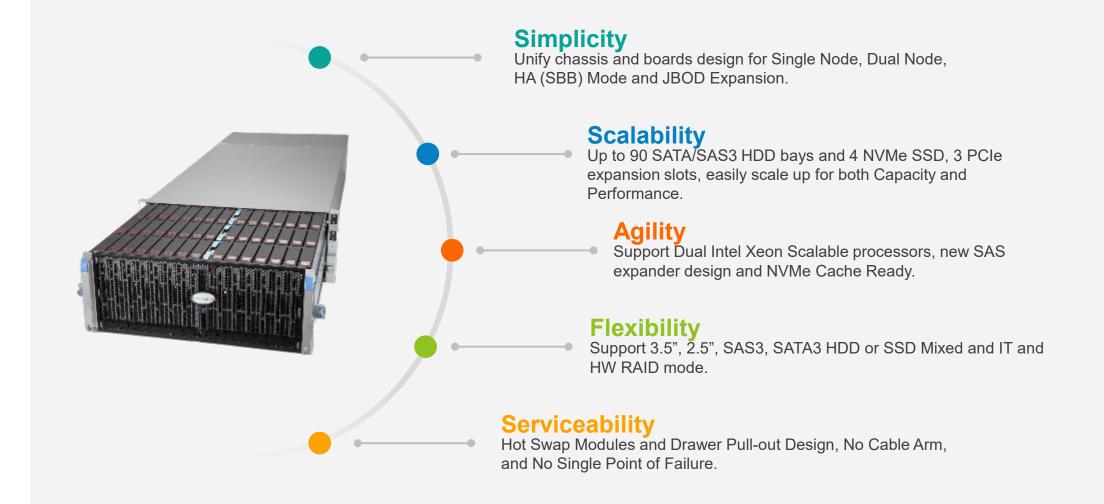




Storage – Top Loading Family

New 4U Top Loading Platform Advantages





New X12 Cloud Density Top Loading Family



Next Generation 60 or 90-Bay Single, Dual Node and High Available Architecture Innovation



90x Hot-Swap 3.5" 12Gb/s Single, Dual and HA Storage



CSE-947SE1(2)C-R1K66JBOD CSE-947HE1(2)C-R2K05JBOD

60/90x Hot-Swap 3.5" 12Gb/s Single and Dual Expender

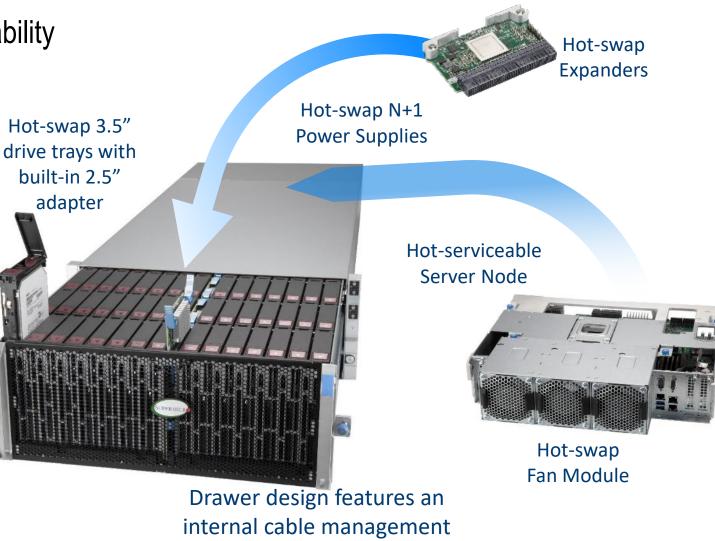
New 4U Top Loading Field Service Optimized

Designed for Active Field Serviceability

- ✓ Passive Mid-plane, Backplane
- ✓ No CMA required!
- ✓ Tool-less access
- ✓ "Drawer" pull-out design

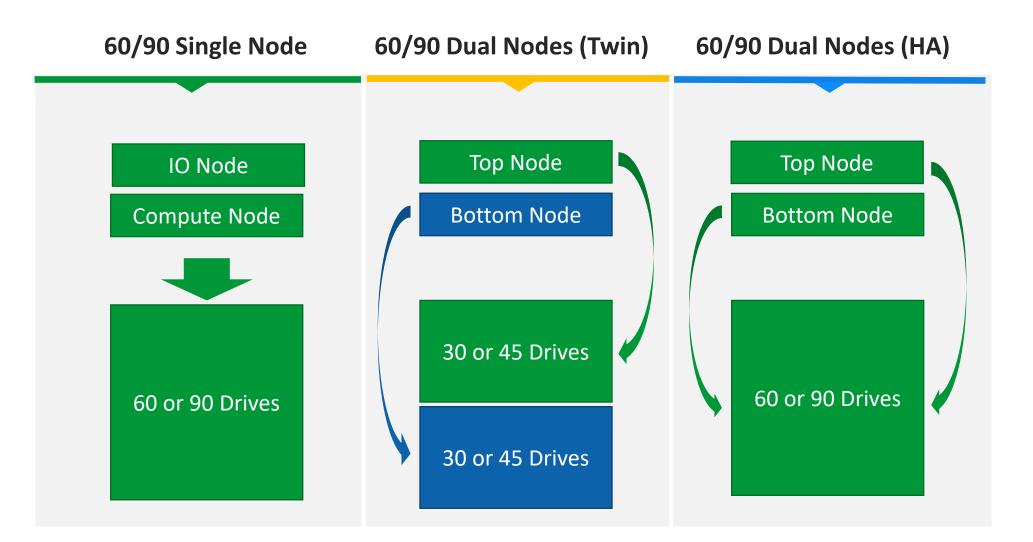
Field-Replaceable Unit

- ✓ Serviceable/Hot-swap Nodes (SBB)
- ✓ Serviceable/Hot-swap Expanders (SBB)
- ✓ Hot-swap Drive Modules
- ✓ Hot-swap Power Supplies





New 4U Top Loading Storage Architecture

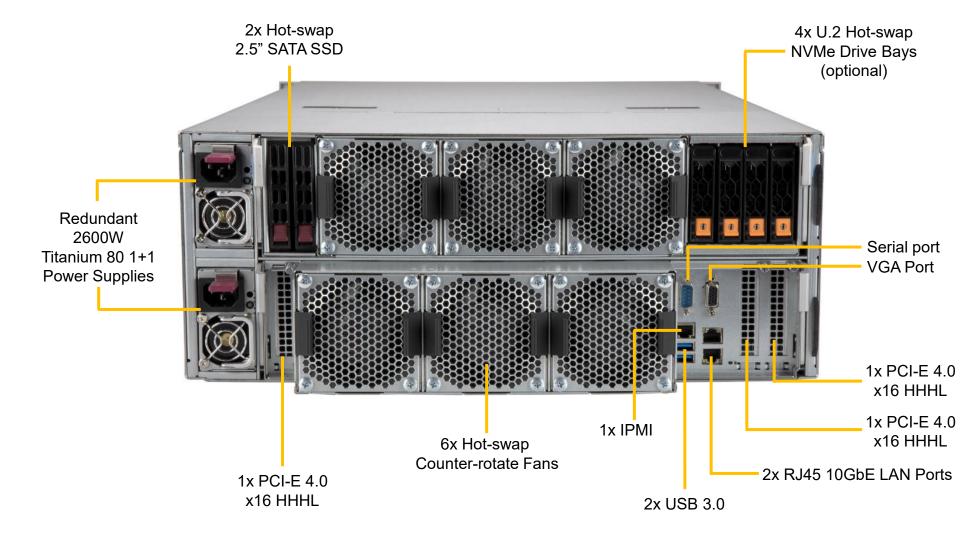


UPERMICR



SUPERMICR

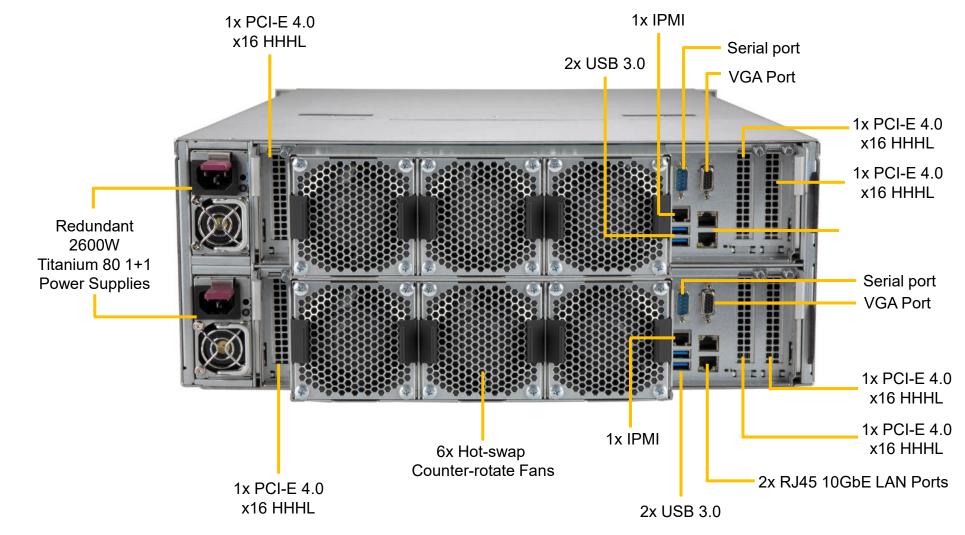
Single Node Chassis Rear View



New 4U Top Loading Chassis Architecture



Dual Node Chassis Rear View



X12 Top Loading 4U60 Single Node Storage



SSG-640SP-E1CR60 (Coming Soon)



Specifications

Processor Support

Dual 3nd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

3x PCI-E 4.0 x16

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 60x Hot-swap 2.5" or 3.5" drive bays (SAS3/SATA3)
- 2x rear Hot-swap 2.5" SATA drive bays
- 2 onboard PCIe x2 M.2 slots and 2 internal slim SATA SSD slots
- 4 rear NVMe U.2 bays for cache support (optional)

Storage Controller

- Broadcom SAS 3616 AOM, 3816 AOC (IT mode)
- Broadcom SAS 3916, 3908 AOC (HW RAID mode)

System Cooling

6x Heavy duty counter-rotate redundant PWM cooling fans

Power Supply

2x 2000W High-efficiency (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.68" (W) x 6.9" (H) x 34.1" (D)

X12 Top Loading 4U90 Single Node Storage



SSG-640SP-E1CR90 (Coming Soon)



Specifications

Processor Support

Dual 3nd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

3x PCI-E 4.0 x16

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 90x Hot-swap 2.5" or 3.5" drive bays (SAS3/SATA3)
- 2x rear Hot-swap 2.5" SATA drive bays
- 2 onboard PCIe x2 M.2 slots and 2 internal slim SATA SSD slots
- 4 rear NVMe U.2 bays for cache support (optional)

Storage Controller

- Broadcom SAS 3616 AOM, 3818 AOC (IT mode)
- Broadcom SAS 3916, 3908 AOC (HW RAID mode)

System Cooling

6x Heavy duty counter-rotate redundant PWM cooling fans

Power Supply

2x 2600W High-efficiency (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.68" (W) x 6.9" (H) x 42.9" (D)

X12 Top Loading 4U60 Dual Node Storage



SSG-640SP-DE1CR60 (Coming Soon)





Specifications

Processor Support (per node)

Dual 3nd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity (per node)

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion (per node)

3x PCI-E 4.0 x16

Networking & I/O (per node)

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays (per node)

- 30x Hot-swap 2.5" or 3.5" drive bays (SAS3/SATA3)
- 2 onboard PCIe x2 M.2 slots and 2 internal slim SATA SSD slots

Storage Controller

- Broadcom SAS 3616 AOM, 3816 AOC (IT mode)
- Broadcom SAS 3916, 3908 AOC (HW RAID mode)

System Cooling

6x Heavy duty counter-rotate redundant PWM cooling fans

Power Supply

2x 2600W High-efficiency (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.68" (W) x 6.9" (H) x 34.1" (D)

X12 Top Loading 4U90 Dual Node Storage



SSG-640SP-DE1CR90 (Coming Soon)

Specifications





Processor Support (per node)

Dual 3nd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity (per node)

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion (per node)

3x PCI-E 4.0 x16

Networking & I/O (per node)

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays (per node)

- 45x Hot-swap 2.5" or 3.5" drive bays (SAS3/SATA3)
- 2 onboard PCIe x2 M.2 slots and 2 internal slim SATA SSD slots

Storage Controller

- Broadcom SAS 3616 AOM, 3816 AOC (IT mode)
- Broadcom SAS 3916, 3908 AOC (HW RAID mode)

System Cooling

6x Heavy duty counter-rotate redundant PWM cooling fans

Power Supply

2x 2600W High-efficiency (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.68" (W) x 6.9" (H) x 42.9" (D)

X12 Top Loading 4U60 SBB Storage



SSG-640SP-DE2CR60 (Coming Soon)

Specifications





Processor Support (per node)

Dual 3nd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity (per node)

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion (per node)

3x PCI-E 4.0 x16

Networking & I/O (per node)

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port
- PCIe Gen3 x16 NTB and 1GbE Private Ethernet for node to node communication

Drive Bays

- 60x Hot-swap 2.5" or 3.5" drive bays (SAS3)
- 2 onboard PCIe x2 M.2 slots and 2 internal slim SATA SSD slots (per MB tray)

Storage Controller

Broadcom SAS 3616 AOM (IT mode)

System Cooling

6x Heavy duty counter-rotate redundant PWM cooling fans

Power Supply

2x 2600W High-efficiency (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.68" (W) x 6.9" (H) x 34.1" (D)

X12 Top Loading 4U90 SBB Storage



SSG-640SP-DE2CR90 (Coming Soon)

Specifications





Processor Support (per node)

Dual 2nd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity (per node)

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion (per node)

3x PCI-E 4.0 x16

Networking & I/O (per node)

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port
- PCIe Gen3 x16 NTB and 1GbE Private Ethernet for node to node communication

Drive Bays

- 90x Hot-swap 2.5" or 3.5" drive bays (SAS3)
- 2 onboard PCIe x2 M.2 slots and 2 internal slim SATA SSD slots (per MB tray)

Storage Controller

Broadcom SAS 3616 AOM (IT mode)

System Cooling

6x Heavy duty counter-rotate redundant PWM cooling fans

Power Supply

2x 2600W High-efficiency (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.68" (W) x 6.9" (H) x 42.9" (D)

Cloud Scale Top Loading Market Opportunity



Backup and Recovery Deep Archive and Active Archive Big Data & Analytic, Data Lake HPC and Al/ML Workloads Content Repositories



Enterprise

Cloud

-l-u-s-t-r-e-File System

Telco & Cloud Service Providers Media & Entertainment Financial Service Healthcare Image Archive Government Data Protection

New Top Loading Platform Innovation

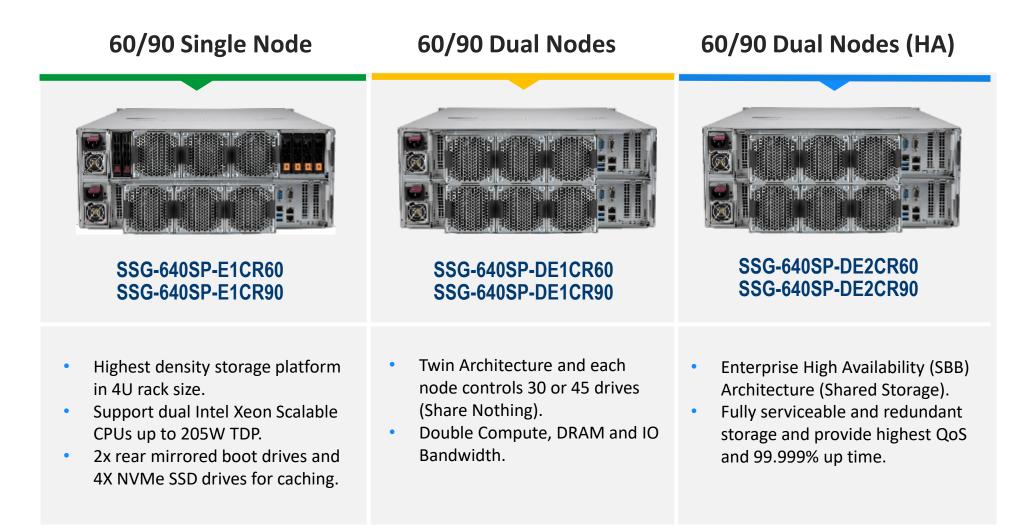


	Supermicro	W Company	S Company
Architecture	Unify Design (60 or 90 bay) Single, Dual, SBB Storage and JBOD	68 bay for Storage & 102 bay for JBOD	96 bay Single & Dual node 106 bay for JBOD
Compute	Intel Xeon Scalable CPU (up to 205W TDP) 16x DDR4-2933 DIMM slots support Intel Optane DCPMM	Intel Xeon Scalable CPU (up to 165W TDP) 16x DDR4-2666 DIMM slots	Intel Xeon Scalable CPU (up to 105W TDP) 12x DDR4-2666 DIMM slots
Serviceability & Dimensions (Depth)	Drawer Design w/o Cable Management Arm 60 bay (32.4 ", fit-in Standard Rack) 90 bay (41.4 ", fit-in 1.2m Rack)	Storage (46.34") w/ CMA JBOD (47.13") w/ dual CMA	Storage and JBOD 44.8"
Future Ready	X12 (Gen 4) MB Drop-in Ready	N/A	N/A

X12 4U Top Loading Overview



Coming Soon!





Storage – 1U12 Drawer Storage

X11 1U12 Drawer Storage









Specifications

Processor Support

Dual 2nd Gen Intel[®] Xeon[®] Scalable (Cascade Lake-Refresh) processors, up to 205W TDP

Memory Capacity

- 12x DIMM slots, Up to 3TB ECC 3DS LRDIMM, DDR4-2933
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

3x PCI-E 3.0 x16

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 4x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 12x Hot-swap 3.5" drive bays (SAS3/SATA3)
- 4x front Hot-swap 2.5" NVMe/SATA drive bays
- 1 Onboard M.2 NVMe slot (up to 110mm)

Storage Controller

Broadcom SAS 3216 AOM (IT mode)

System Cooling

6x 40mm counter-rotate redundant PWM cooling fans

Power Supply

800W (Platinum level, 80%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.6" (W) x 1.7" (H) x 37.4" (D)

X12 1U12 Drawer Storage



SSG-610P-ACR12N4L/H (Coming Soon)

Specifications





Processor Support

Dual 3nd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

- 3x PCI-E 4.0
- 1x AIOM PCI-E 4.0 x16 (OCP 3.0)

Networking & I/O

- 2x 25GBe SFP28
- 1x RJ45 Dedicated IPMI LAN port
- 4x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 12x Hot-swap 3.5" drive bays (SAS3/SATA3)
- 4x E1.S NVMe and 2x Hybrid NVMe/SATA (7mm) drive bays
- 2x Onboard M.2 NVMe/SATA slot (up to 22x80mm)

Storage Controller

- Broadcom SAS 3916 (HW RAID)
- Broadcom SAS 3816 (IT Mode)

System Cooling

6x 40mm counter-rotate redundant PWM cooling fans

Power Supply

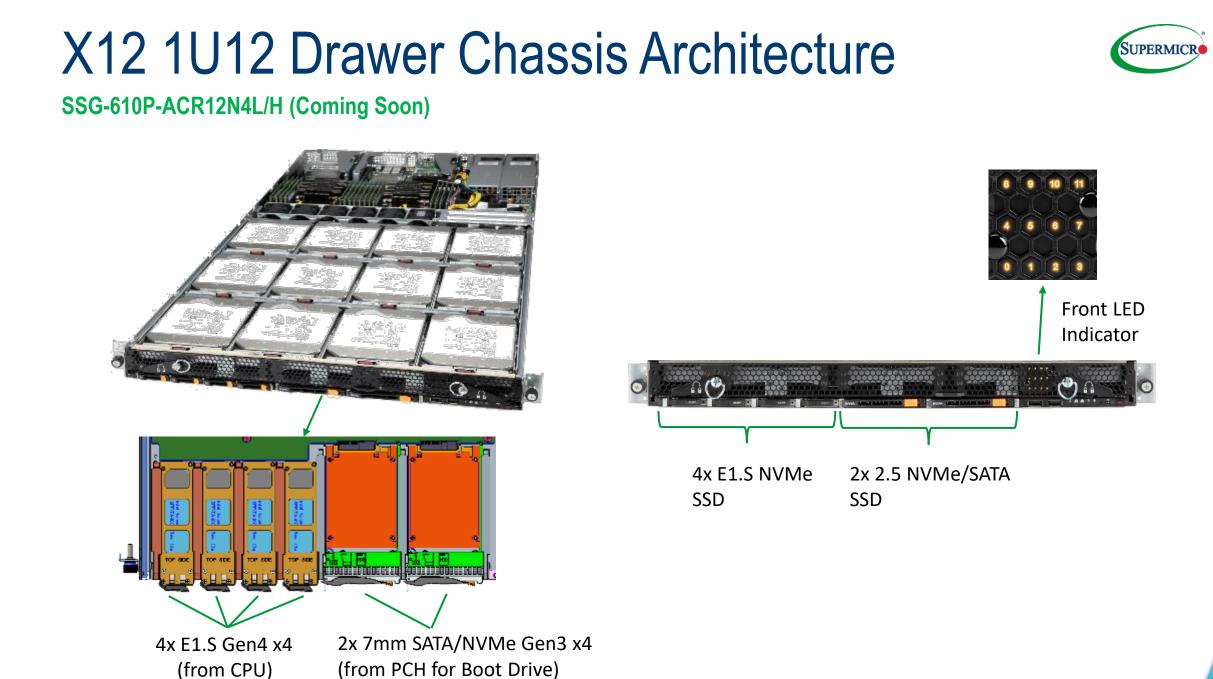
800W (Platinum level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.6" (W) x 1.7" (H) x 37.4" (D)





Storage – 2U24 Simply Double

X12 2U24 3.5" Simply Double Storage







Specifications

Processor Support

Dual 3rd Gen Intel® Xeon® Scalable (Ice Lake) processors, up to 205W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

• 2x PCI-E 4.0 x16, 1x PCI-E 4.0 c8 and 1x AIOM x16

Networking & I/O

- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 24x Hot-swap 3.5" (SAS3/SATA3) drive bays
- 4x rear Hot-swap 2.5" SAS3/SATA3/NVMe hybrid drive bays
- 2x Onboard M.2 NVME/SATA slots (22x80mm)

Storage Controller

- Broadcom SAS 3916 AOC (HW RAID)
- Broadcom SAS 3816 AOC (IT Mode)

System Cooling

5x 80mm high-performance PWM fans

Power Supply

1600W (Titanium level, 80%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 3.5" (H) x 34" (D)



Storage – General Purpose Family

X12 Enterprise Optimized Storage Family



Optimized Storage Building Blocks for Both Scale-Up and Scale-Out SDS





SSG-640P-E1CR24 H/L

24x Hot-Swap 3.5" 12Gb/s SAS3/SATA3 Bays

SSG-640P-E1CR36 H/L

36x Hot-Swap 3.5" 12Gb/s SAS3/SATA3 Bays







16x Hot-Swap 3.5" 12Gb/s SAS3/SATA3 Bays

SSG-620P-E1CR12 H/L

12x Hot-Swap 3.5" 12Gb/s SAS3/SATA3 Bays

SuperStorage

X12 2U 3.5" 12 Bay Storage



SSG-620P-ACR12H/L (Coming Soon)

Specifications





Processor Support

Dual 3rd Gen Intel® Xeon® Scalable (Ice Lake) processors, up to 270W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

4x PCI-E 4.0 x16 and 2x PCI-E 4.0 x8 (slot 1 occupied by SAS controller)

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 4x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 12x Hot-swap 3.5" (SAS3/SATA3) drive bays
- 4x rear Hot-swap 2.5" SAS3/SATA3 drive bays
- 4x Hybrid Hot-Swap NVMe bays
- 1x Onboard M.2 NVMe slot (110mm)

Storage Controller

- Broadcom SAS 3916 AOC (HW RAID)
- Broadcom SAS 3816 AOC (IT Mode)

System Cooling

3x 80mm high-performance PWM fans

Power Supply

1200W (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 3.5" (H) x 24.8" (D)

X12 2U 3.5" 16 Bay Storage



SSG-620P-ACR16H/L (Coming Soon)

Specifications





Processor Support

Dual 3rd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 270W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

4x PCI-E 4.0 x16 and 2x PCI-E 4.0 x8 (slot 1 occupied by SAS controller)

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 4x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 16x Hot-swap 3.5" (SAS3/SATA3) drive bays
- 2x rear Hot-swap 2.5" SAS3/SATA3 drive bays
- 4x Hybrid Hot-Swap NVMe bays
- 1x Onboard M.2 NVMe slot (110mm)

Storage Controller

- Broadcom SAS 3916 AOC (HW RAID)
- Broadcom SAS 3816 AOC (IT Mode)

System Cooling

4x 80mm high-performance PWM fans

Power Supply

1600W (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 3.5" (H) x 24.8" (D)

X12 4U 3.5" 24 Bay Storage



SSG-640P-E1CR24H/L (Coming Soon)

Specifications





Processor Support

Dual 3rd Gen Intel® Xeon® Scalable (Ice Lake) processors, up to 270W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

4x PCI-E 4.0 x16 and 2x PCI-E 4.0 x8 (slot 3 occupied by SAS controller)

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 4x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 24x Hot-swap 3.5" (SAS3/SATA3) drive bays
- 2x rear Hot-swap 2.5" SAS3/SATA3 drive bays
- 4x Hybrid Hot-Swap NVMe bays
- 1x Onboard M.2 NVMe slot (110mm)

Storage Controller

- Broadcom SAS 3908 AOC (HW RAID)
- Broadcom SAS 3808 AOC (IT Mode)

System Cooling

5x 80mm high-performance PWM fans

Power Supply

1200W (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 7" (H) x 26.5" (D)

X12 4U 3.5" 36 Bay Storage



SSG-640P-E1CR36H/L (Coming Soon)

Specifications





Processor Support

Dual 3rd Gen Intel[®] Xeon[®] Scalable (Ice Lake) processors, up to 270W TDP

Memory Capacity

- 16x DIMM slots, Up to 4TB ECC 3DS LRDIMM, DDR4-3200
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

4x PCI-E 4.0 x16 and 2x PCI-E 4.0 x8 (slot 3 occupied by SAS controller)

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 4x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 36x Hot-swap 3.5" (SAS3/SATA3) drive bays
- 2x rear Hot-swap 2.5" SAS3/SATA3 drive bays
- 4x Hybrid Hot-Swap NVMe bays
- 1x Onboard M.2 NVMe slot (110mm)

Storage Controller

- Broadcom SAS 3908 AOC (HW RAID)
- Broadcom SAS 3808 AOC (IT Mode)

System Cooling

7x 80mm high-performance PWM fans

Power Supply

1200W (Titanium level, 96%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 7" (H) x 27.5" (D)

X12 Enterprise Optimized Storage Advantages



Performance	Intel Ice Lake processor and PCIe v4.0 ready	Next Generation
Agility	Enterprise building block for scale-out or scale-up storage	Enterprise Storage Building
Serviceability	Hot-swap drives and power supplies	
Flexibility	Flexible sales model for partners and end-users	



Storage – 1U32 All-Flash Family

X11 1U32 NVMe All Flash Storage Family



Petascale NVMe Solution with Unprecedented Density and Performance



SSG-136R-NE32JBF & SSG-136R-N32JBF

32 x E1.L & 32 x U.2 NVMe SSD JBOF







6/25/2021

EDSFF Long and Short Family





X11 1U32 EDSFF Long Storage Server





Specifications

Processor Support

Dual 2nd Gen Intel[®] Xeon[®] Scalable (Cascade Lake-Refresh) processors, up to165W TDP

Memory Capacity

- 24x DIMM slots, Up to 6TB ECC 3DS LRDIMM, DDR4-2933
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

2x PCI-E 3.0 x16

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 32x Hot-swap EDSFF long (E1.L) 9.5mm NVMe bays
- 2x Onboard SATA M.2 slot (110mm)

System Cooling

8x 40mm high-performance PWM fans

Power Supply

1600W (Platinum level, 80%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 1.7" (H) x 35.95" (D)

Subject to change without notice

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38

X11 1U32 EDSFF Short Storage Server

SSG-1029P-NES32R (Released)



Specifications

Processor Support

Dual 2nd Gen Intel[®] Xeon[®] Scalable (Cascade Lake-Refresh) processors, up to 205W TDP

Memory Capacity

- 24x DIMM slots, Up to 6TB ECC 3DS LRDIMM, DDR4-2933
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

2x PCI-E 3.0 x16 and 1x PCI-E 3.0 x8

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

32x Hot-swap EDSFF short (E1.S) 9.5mm NVMe or M.2 bays

System Cooling

8x 40mm high-performance PWM fans

Power Supply

1600W (Platinum level, 80%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 1.7" (H) x 30" (D)







X11 1U32 U.2 Storage Server







Specifications

Processor Support

Dual 2nd Gen Intel[®] Xeon[®] Scalable (Cascade Lake-Refresh) processors, up to 140W TDP

Memory Capacity

- 24x DIMM slots, Up to 6TB ECC 3DS LRDIMM, DDR4-2933
- Supports Intel[®] Optane[™] Persistent Memory

Expansion

2x PCI-E 3.0 x16

Networking & I/O

- 2x 10GBase-T LAN ports
- 1x RJ45 Dedicated IPMI LAN port
- 2x USB 3.0 ports, 1x VGA ports and 1x Serial port

Drive Bays

- 32x Hot-swap U.2 NVMe bays (Dual Drawer/Tray)
- 2x Onboard SATA M.2 slots

System Cooling

8x 40mm high-performance PWM fans

Power Supply

1600W (Platinum level, 80%) redundant supply

System Management

Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

Dimensions

17.2" (W) x 1.7" (H) x 35.95" (D)

X11 1U32 U.2 JBOF







2x PCI-E 3.0 x16 Networking & I/O 4 PCI-E x16 mini-SAS HD ports 2x RJ45 Dedicated IPMI LAN port Drive Bays 32x Hot-swap U.2 NVMe bays (Dual Drawer/Tray) System Cooling 8x 40mm high-performance PWM fans Power Supply 1000W (Titanium level, 80%) redundant supply System Management Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port Dimensions 17.2" (W) x 1.7" (H) x 31.95" (D)

Subject to change without notice

Specifications



Expansion



Storage – High Availability (SBB)

SSG Storage Bridge Bay

Storage Platform for Dual-Controller Storage Systems

- SSG SBB is optimized for mission-critical, enterprise-level storage applications which incorporate SAS, NVMe and FC storage solutions for flexibility and provides hot-swappable canisters for all active components in the server for ease of servicing.
- High Available Architecture
 - Complete redundant, fault-tolerant, hot-swappable active components
 - Dedicated high speed canister to canister connection (NTB and 1GbE) for heartbeat and data replication.
 - Dual port storage media required



X11 High Availability (SBB) Storage Family



Enterprise Storage Building Blocks for Cluster-in-A-Box Architecture





SSG-6038R-DE2CR16L

16x Hot-Swap 3.5" 12Gb/s SAS3/SATA3 Bays

SSG-6048R-DE2CR24L

24x Hot-Swap 3.5" 12Gb/s SAS3/SATA3 Bays





-> SAS moving to top-loading SBB



SSG-2028R-DE2CR24L

24x Hot-Swap 2.5" 12Gb/s SAS3/SATA3 Bays

SSG-2029P-DN2R24L

24x Hot-Swap dual port U.2 NVMe bays

SuperStorage

2U

SuperStorage Key Value Proposition



Flexibility

Flexible configurations to match different Mellanox
 Processor

SFAGATE Micron (intel

- Processor Memory
- Networking
- Storage Media
 NIDIA
 BROADCOM

Quality

- Vendors component compatibility verification.
- System integrity test for best quality and reliability.
- Key components warranty coverage.

Availability

- Global manufacturing and inventory.
- Quick manufacturing turn around time.
- Modular building block designs.

SAMSUNG

Western Digital



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