



Supermicro A+ Family
Outstanding Performance
Drives Business Agility



COVERING KEY WORKLOADS WITH A+ FAMILY

COMPUTE INTENSIVE

Supermicro's latest portfolio of A+ server and storage systems supporting the 2nd Generation AMD EPYC™ processors, offers new levels of optimized performance per watt per dollar, and deliver higher core density, more memory bandwidth, and unparalleled I/O performance and capacity.

Supporting up to 64 AMD "Zen" 2 cores and 128 threads per socket, Supermicro A+ solutions are coupled with high-throughput, low-latency, hot-swappable U.2 NVMe SSDs, up to 4TB of DDR4-3200MHz memory (8 memory channels per socket), and up to 128 PCI-E lanes on a dual- or single-socket system.

Supermicro's new generation A+ solutions supporting AMD EPYC™ family of processors enable a new range of powerful and energy-efficient server options to radically lower data center TCO through an optimized balance of compute, memory, I/O, and storage resources.

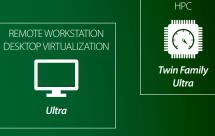
For more information, please visit www.supermicro.com/epyc

















WIO



I/O INTENSIVE

MEMORY INTENSIVE



New H12 Generation WIO SuperServer®

COST AND ENERGY EFFICIENCY FOR DATA CENTER ENVIRONMENTS

New H12 Generation Twin Family

INNOVATIVE MULTI-NODE ARCHITECTURES WITH REDUCED TCO AND TCE



1U WIO 3.5" Drive Bays



1U WIO 2.5" Drive Bays



2U TwinPro 4-Node 3.5" Drive Bays



2U BigTwin 4-Node 2.5" Drive Bays

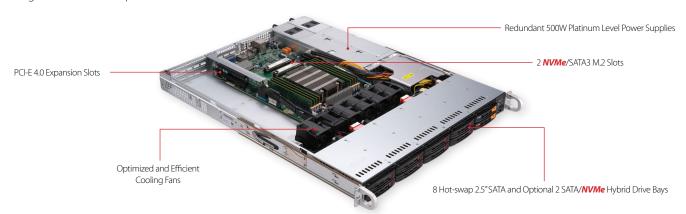
Single AMD EPYC™ 7002 Series processors, up to 225W TDP 8 DDR4-3200MHz DIMM slots 3 PCI-E 4.0 x16 slots (2 FHFL and 1 LP slots)		Single AMD EPYC™ 7002 Series per node, up to 225W TDP 8 DDR4-3200MHz DIMM slots per node 2 PCI-E 4.0 x16 slots (2 LP slots) per node	Dual AMD EPYC™ 7002 Series per node, up to 225W TDP* 16 DDR4-3200MHz DIMM slots per node 2 PCI-E 4.0 x16 slots (2 LP slots) per node				
				3.5" SATA3 storage (up to 4 optional U.2 NVMe)	2.5" SATA3 storage (up to 2 optional U.2 NVMe)	3x 3.5" SATA3 storage per node	6x 2.5" SATA3 storage per node
				Dual 10G Ethernet onboard networking		Onboard flexible SIOM networking up to 100G	Onboard flexible SIOM networking up to 100G

ABC SYSTEMS AG APPLIED BRAINWARE & COMPUTER SYSTEMS

H12 Generation WIO SuperServer®

COST AND ENERGY EFFICIENCY FOR DATA CENTER ENVIRONMENTS

Supermicro WIO SuperServer* systems offer a wide range of I/O options to deliver truly optimized systems for specific requirements. Users can optimize the storage and networking alternatives to accelerate performance, increase efficiency and find the perfect fit for their applications. In addition to enabling customizable configurations and optimization for multiple application requirements, Supermicro WIO SuperServers also provide attractive cost advantages and investment protection.



1U 1-Socket 2.5" Drive Bays



1U 4x 3.5" Hot-swap Drive Bays



1U 10x 2.5" Hot-swap Drive Bays



Rackmount

Up to 10x 2.5" drive bays in 1U; Up to 4x 3.5" drive bays in 1U



1-Socket

Up to AMD EPYC™ 7002 series processors; up to 225W



8 DIMM Slots

Up to 2TB ECC memory with 256GB DIMMs, up to DDR4-3200MHz



NVMe/SATA3

Single-socket cost-effective systems in 1U

10x 2.5" or 4x 3.5" hot-swappable drive bays

Onboard dual 10 Gigabit Ethernet networking

Hybrid backplane supporting NVMe and SATA3 drives; 2 PCI-E 4.0 x4 M.2 slots



Onboard Networking

Dual 10GbE RJ45 LAN ports with dedicated IPMI LAN port; 2 PCI-E 4.0 x16 FHFL slots and 1 PCI-E 4.0 x16 LP slot in 1U



Platinum Level

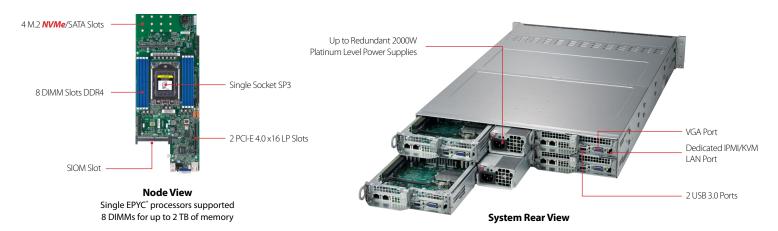
Up to redundant 500W high-efficiency digital power supplies



H12 Generation TwinPro[™]

INNOVATIVE MULTI-NODE ARCHITECTURE WITH REDUCED TCO AND TCE

TwinPro systems are designed for simplified deployment and maintenance, and assembled with the highest quality to ensure continuous operation even at maximum capacity. Customers in high-end enterprise, data center, HPC and Cloud Computing environments receive the greatest competitive advantage from data center resources with the Supermicro TwinPro.





2U 4-Node 3.5" Front View



Ⅲ Four Nodes

Four sets of 3x 3.5" drives



1-Socket

Up to AMD EPYC™ 7002 series processors; up to 225W



8 DIMM Slots

Up to 2TB ECC memory with 256GB DIMMs per node, up to DDR4-3200MHz



Hot-swappable 3.5" SAS3/SATA3 storage options

2U systems supporting two or four nodes with 16 DIMM slots

Flexible networking options up to 100G Ethernet and InfiniBand

SATA3

4 M.2 NVMe/SATA slots per node



Flexible Networking

Super I/O Module (SIOM) networking* with dedicated IPMI LAN port per node; Up to 2 PCI-E 4.0 x16 LP slots



Platinum Level

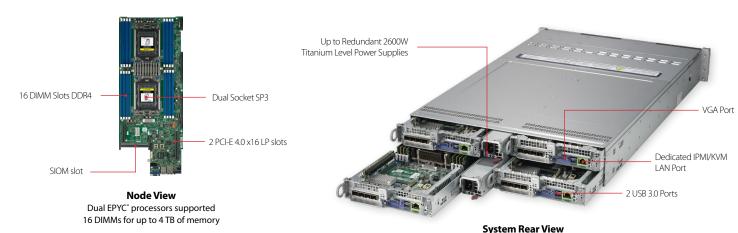
Up to redundant 2000W high-efficiency digital power supplies



H12 Generation BigTwin[™]

NO-COMPROMISE 2U 4-NODE TWIN ARCHITECTURE

The new H12 generation 2U BigTwin design supports the latest AMD EPYC™ 7002 series processors with up to 16 DIMMs of DDR4-3200MHz memory, two PCI-E 4.0 x16 LP expansion slots, flexible onboard networking via SIOM, and up to six 2.5" drive bays per node, with additional options for SAS3 storage.









Four Nodes

Four sets of 6x 2 5" drives



2U systems supporting four nodes with 16 DIMM slots

Flexible storage options including all NVMe and hybrid NVMe/SAS3/SATA3

SIOM networking options including 10GbE, 25GbE, 100GbE and IB

NVMe/SAS3/SATA3

All NVMe or SATA3 or hybrid NVMe/SAS3; 1 NVMe/SATA3 M.2 slot per node



سيمسيا

MEMORY

2-Socket

Up to AMD EPYC™ 7002 series processors; up to 225W**

Up to 16 DIMM Slots

DIMMs per node, up to DDR4-3200MHz

Up to 4TB ECC memory with 256GB



Flexible Networking

Super I/O Module (SIOM) networking* with dedicated IPMI LAN port per node; Additional 2 PCI-E 4.0 x16 LP slots



Up to Titanium Level

Up to redundant 2600W high-efficiency digital power supplies



Hybrid NVMe/SAS3/SATA3



SATA3 Model



H11 Ultra

INDUSTRY LEADING IOPS, ENERGY EFFICIENCY
AND FLEXIBILITY

H11 BigTwin™

NO-COMPROMISE 2U 4-NODE TWIN ARCHITECTURE

H11 WI0

EFFICIENCY AND STORAGE OPTIMIZED ARCHITECTURE

H11 Mainstream

EFFICIENT, COST-EFFECTIVE DESIGNS FOR THE MAINSTREAM



Learn more on page 14







Dual AMD EPYC™ 7002 Series, up to 225W TDP	Dual AMD EPYC™ 7002 Series per node, up to 225W TDP	Single AMD EPYC™ 7002 Series, up to 225W TDP	Single or dual AMD EPYC™ 7002 Series, up to 225W TDI
32 DDR4-3200MHz DIMM slots	16 DDR4-3200MHz DIMM slots per node	16 DDR4-3200MHz DIMM slots	Up to 16 DDR4-3200MHz DIMM slots
Up to 7 PCI-E 3.0 slots	2 PCI-E 3.0 x16 slots (2 LP slots)	Up to 5 PCI-E 3.0 slots (3 FHFL and 2 LP slots)	Up to 6 PCI-E 3.0 slots
2.5" or 3.5" SATA3, SAS3, Hybrid and All-NVMe storage	2.5" All-NVMe/Hybrid SAS3 storage	U.2 NVMe or 2.5" SATA3 storage	3.5" SATA3 and optional SAS3 storage
Flexible onboard networking up to 2x 25G Ethernet	Onboard flexible SIOM networking up to 100G Ethernet	Onboard networking dual 10G Ethernet	Onboard networking up to dual 10G Ethernet

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Learn more on page 18

Learn more on page 20

Learn more on page 16

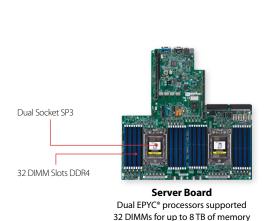
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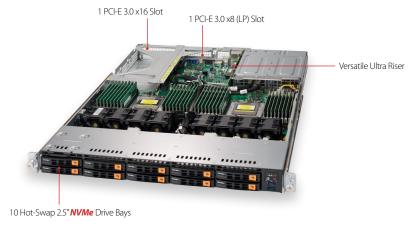
www.abcsystems.ch

H11 Generation Ultra

INDUSTRY LEADING IOPS, ENERGY EFFICIENCY AND FLEXIBILITY

Supermicro Ultra SuperServers are designed to deliver the highest performance, flexibility, scalability and serviceability to demanding IT environments, and to power mission-critical Enterprise workloads





1U Ultra 10 NVMe

1U/2U systems supporting dual processors with 32 DIMM slots Versatile storage options with U.2 NVMe, SAS3 and SATA3 Flexible networking for up to 25G Ethernet and PCI-E expansion options



2U Ultra 12x 3.5" Drive Bays

1U Ultra 24x 2.5" NVMe Drive Bays

+41 43 433 6 433

1U Ultra 4x 3.5" Drive Bays



Rackmount

Up to 10x 2.5" or 4x 3.5" drive bays in 1U: Up to 24x 2.5" or 12x 3.5" drive bays in 1U



2-Socket

Up to AMD EPYC™ 7002 series processors; up to 225W



32 DIMM Slots

Up to 8TB ECC memory with 256GB DIMMs, up to DDR4-3200MHz



NVMe/SAS3/SATA3

1 PCI-E/SATA M.2 support on some



I/O

Flexible Networking

Rich PCI-E expansion options including GPU support; Flexible networking via Ultra Riser adapters* with dedicated IPMI LAN port



Up to Titanium Level

Up to redundant 1600W high-efficiency digital power supplies

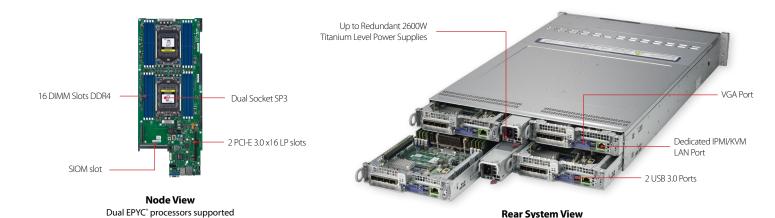


H11 Generation BigTwin[™]

NO-COMPROMISE 2U 4-NODE TWIN ARCHITECTURE

16 DIMMs for up to 4 TB of memory

BigTwin is the 5th generation in the Supermicro Twin Family with a multitude of innovations and engineering breakthroughs. Historically multi-node systems traded off features and capacity for higher density. They were deployed for workloads that did not require the highest performance or the highest memory density on a single node.



ABC SYSTEMS AG

APPLIED BRAINWARE & COMPUTER SYSTEMS

Hybrid NVMe/SAS3/SATA3

SATA3 Model

All-Flash NVMe





Four sets of 6x 2 5" drives



NVMe/SAS3/SATA3 All NVMe or SATA3 or hybrid NVMe/SAS3; 1 NVMe/SATA3 M.2 slot per node



2-Socket Up to AMD EPYC™ 7002 series processors per node: up to 225W**



2U systems supporting four independent nodes with 16 DIMM slots

SIOM networking options including 10GbE, 25GbE, 100GbE and IB

Flexible storage options including all NVMe and hybrid NVMe/SAS3/SATA3

Flexible Networking Super I/O Module (SIOM) networking* with dedicated IPMI LAN port per node; Additional 2 PCI-E 3.0 x16 LP slots



Up to 16 DIMM Slots Up to 4TB ECC memory with 256GB



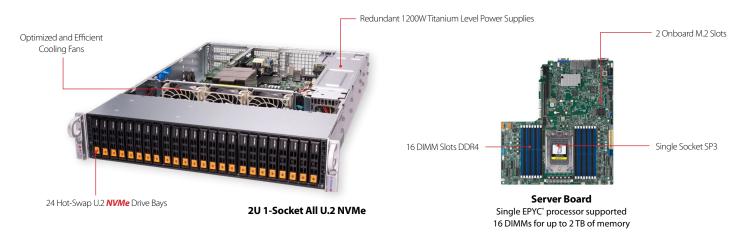
Up to Titanium Level Up to redundant 2600W high-efficiency digital power supplies

+41 43 433 6 433

H11 Generation WIO SuperServer®

EFFICIENCY AND STORAGE OPTIMIZED ARCHITECTURE

Supermicro WIO SuperServer* systems offer a wide range of I/O options to deliver truly optimized systems for specific requirements. Users can optimize the storage and networking alternatives to accelerate performance, increase efficiency and find the perfect fit for their applications. In addition to enabling customizable configurations and optimization for multiple application requirements.





1U 10x 2.5" Hot-swap Drive Bays



1U 24x 2.5" Hot-swap Drive Bays



2U 16x 2.5" Hot-swap Drive Bays



□ Rackmount

Up to 10x 2.5" drive bays in 1U; Up to 24x 2.5" drive bays in 2U



1-Socket

Up to AMD EPYC™ 7002 series processors; up to 225W



16 DIMM Slots

Up to 4TB ECC memory with 256GB DIMMs, up to DDR4-3200MHz



Up to 10 U.2 NVMe in 1U or 24 U.2 NVMe storage devices in 2U

Single-socket cost-effective systems in 1U/2U

Onboard dual 10 Gigabit Ethernet networking

All-NVMe/SATA3

Hybrid backplane supporting NVMe and SATA3 drives; 2 PCI-E 3.0 x4 M.2 slots



I/O

Onboard Networking

Dual 10GbE RJ45 LAN ports with dedicated IPMI LAN port; Up to 3 PCI-E 3.0 slots in 1U and 5 slots in 2U



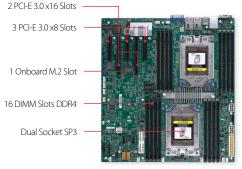
Up to Titanium Level

Up to redundant 1200W high-efficiency digital power supplies



H11 Generation Mainstream SuperServer®

EFFICIENT, COST-EFFECTIVE DESIGNS FOR THE MAINSTREAM APPLICATIONS



20

Server Board

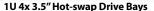
Dual EPYC* processors supported 16 DIMMs for up to 2 TB of memory (for tower system shown on the right only)



Tower 2-Socket 3.5" Hot-swap Drive Bays

1U, 2U and tower systems supporting single or dual processors 1-socket and 2-socket models for optimal efficiency and performance Hot-swappable 3.5" SATA3 with SAS3 options







2U 8x 3.5" Hot-swap Drive Bays



Rackmount and Tower

4x 3.5" drive bays in 1U; 8x 3.5" drive bays in 2U; 8x 3.5" and 2x 5.25" drive bays in 4U tower



1 or 2-Socket

Up to AMD EPYC™ 7002 series processors; up to 225W



Up to 16 DIMM Slots

Up to 4TB ECC memory with 256GB DIMMs, up to DDR4-3200MHz



SAS3/SATA3

Up to 8x 3.5" SAS3 drives via Broadcom 3008 in 2U; PCI-E M.2 support available



Onboard Networking

Up to dual 10GbE with dedicated IPMI LAN port; Up to 6 PCI-E 3.0 slots



Up to Platinum Level

Up to redundant 1280W high-efficiency digital power supplies



H12 Generation WIO Serverboard

PCI-E 4.0 READY OPTIMIZED FOR THE WIO PLATFORM





Single-socket WIO Form-Factor

- Up to 2nd Gen AMD EPYC processors, up to 225W TDP
- 8 DIMM slots, up to DDR4-3200MHz
- 3 PCI-E 4.0 x16 and 2 M.2 slots
- Up to 16 SATA and 6 NVMe interfaces
- Dual 1GbE or 10GbE ports with dedicated IPMI LAN port



Single-socket WIO Form-Factor

- Up to 2nd Gen AMD EPYC processors, up to 225W TDP
- 16 DIMM slots, up to DDR4-3200MHz (1 DIMM per channel)
- 3 PCI-E 3.0 x16 and 2 M.2 slots
- Up to 16 SATA and 16 NVMe interfaces
- Dual 1GbE or 10GbE ports with dedicated IPMI LAN port



H11 Generation WIO Serverboard

OPTIMIZED FOR STORAGE APPLICATIONS ON THE WIO PLATFORM

H11SSW



H11 Generation E-ATX Serverboard

DUAL-SOCKET PLATFORM FOR MAINSTREAM APPLICATIONS



Dual-socket E-ATX Form-Factor

- Up to 2nd Gen AMD EPYC processors, up to 225W TDP
- 16 DIMM slots, up to DDR4-3200MHz
- 2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 and 1 M.2 slots
- Up to 10 SATA and 2 NVMe interfaces
- Dual 1GbE or 10GbE ports with dedicated IPMI LAN port



H11 Generation ATX Serverboard

SINGLE-SOCKET PLATFORM FOR MAINSTREAM APPLICATIONS

Single-socket ATX Form-Factor

- Up to 2nd Gen AMD EPYC processors, up to 225W TDP
- 8 DIMM slots, up to DDR4-3200MHz
- 3 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 and 1 M.2 slots
- Up to 16 SATA, 8 SAS and 2 NVMe interfaces
- Dual 1GbE or 10GbE ports



H11SSL



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Storage Options SAS3 ADD-ON CARD OPTIONS

CHOOSE YOUR ONBOARD I/O Supermicro SIOM

Supermicro SAS3 add-on cards feature up to 16 internal SAS ports for high-performance storage applications. It addresses the growing demand for increased data throughput and scalability requirement across the enterprise-class server platforms and delivers cost effective storage solutions using SATA3 drives and maximum performance and reliability with SAS3 drives.

Mini-SAS cables may be required to purchase separately. For more product information and technical specifications, please visit supermicro.com or scan the QR code on the right to retrieve the complete list of options and verify your system compatibility.





The Supermicro* Super I/O Module (SIOM) delivers up to 50% of I/O cost savings and freedom to select networking options from 1Gb/s to 100Gb/s through a Supermicro optimized form factor that is easy to scale, service and manage across a broad range of Supermicro server and storage systems. The SIOM also enables a higher degree of system integration and increased capacity by saving PCI-E slots that are traditionally reserved for add on cards.

For more product information and technical specifications, please visit supermicro.com



SAS3 Host Bus Adapters in IT Mode SAS3 RAID Adapters AOC-S3616L-L16iT AOC-S3216L-L16iT AOC-S3008L-L8e AOC-S3108L-H8iR-16DD AOC-S3108L-H8iR AOC-S3008L-L8i Broadcom® SAS 3216 Broadcom® SAS 3616 Broadcom® SAS 3008 Broadcom® SAS 3108 Broadcom® SAS 3108 Broadcom® SAS 3008 16 ports, 12Gb/s per 8 ports, 12Gb/s per 8 ports, 12Gb/s per 16 ports, 12Gb/s per 8 ports, 12Gb/s per 8 ports, 12Gb/s per port, 8 Internal, Low port, 16 Internal, Low port, 16 Internal, Low port, 8 Internal, Low port, 8 Internal, Low port, 8 Internal, Low Profile, 1024 SATA/ Profile, 1024 SATA/ Profile, 122 SATA/ Profile, 16 SATA/SAS Profile, 240 SATA/ Profile, 63 SATA/SAS **SAS Drives** SAS Drives SAS Drives Drives SAS Drives Drives













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2x 25GbE SFP28 & 2x GbE RJ45 2x 25GbE SFP28 & 2x 10GbE RJ45 2x FDR IB OSFP & 2x GbE RJ45 1x FDR IB OSFP & 2x GbE RJ45 1x EDR IB/D0GbE OSFP28 & 1x GbE RJ45





AOC-MH25G-b2S2GM



AOC-MH25G-m2S2TM



AOC-MHIBF-m2O2GM





AOC-MHIBF-m1O2GM AOC-MHIBE-m1CGM



Standardsysteme nach Mass - ab Stange!

Warenhaus-Sortiment

Systeme in genereller Standard-Ausführung



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Supermicro*, the leading innovator in high-performance, high-efficiency server technology is a premier provider of advanced server Building Block Solutions* for Data Center, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC and Embedded Systems worldwide. Supermicro is committed to protecting the environment through its "We Keep IT Green" initiative and provides customers with the most energy-efficient, environmentally-friendly solutions available on the market.

Learn more at www.supermicro.com

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