H12 TWIN SYSTEMS

TwinPro® - 2U 4 UP Nodes   *BigTwin® - 2U 4 DP Nodes*   *BigTwin® - 2U 4 DP Nodes*

MODEL	AS -2014TP-HTR	AS -2124BT-HNTR**	AS -2124BT-HTR**
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor*	Dual AMD EPYC™ 7003/7002 Series Processors	Dual AMD EPYC™ 7003/7002 Series Processors
Key Applications	• Hyperscale and Hyperconverged Solutions • Compute Intensive Application • Enterprise Server • Data Center • HPC	• Hyperscale and Hyperconverged Solutions • Compute Intensive Application • Enterprise Server • Data Center • HPC	• Hyperscale and Hyperconverged Solutions • Compute Intensive Application • Enterprise Server • Data Center • HPC
Outstanding Features	• Up to 3 3.5" SATA drives per node • Up to 8 DIMMs per node • Flexible SIOM options • M.2 support • 2 PCIe add-on cards per node	• Up to 6 2.5" drives per node (4 NVMe + 2 SATA) or (6 SATA) • Up to 16 DIMMs per node • Flexible SIOM options • M.2 support • 2 PCIe add-on cards per node	• Up to 6 2.5" SATA drives per node • Up to 16 DIMMs per node • Flexible SIOM options • M.2 Support • 2 PCIe add-on cards per node
Serverboard	SUPER● ˚ H12SST-PS	SUPER● ˚ H12DST-B	SUPER● ˚ H12DST-B
System Memory (Max.)	Up to 2TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 8 DIMM slots	Up to 4TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 16 DIMM slots	Up to 4TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 16 DIMM slots
Expansion Slots	2 PCIe 4.0 X16 (LP) 1 SIOM card support 4 M.2 SATA/PCIe slots 22110/2280/2260/2242 M-key	2 PCIe 4.0 X16 (LP) 1 SIOM card support 1 M.2 SATA/PCIe slot 2280/2210 M-key	2 PCIe 4.0 x16 (LP) 1 SIOM card support 1 M.2 SATA/PCIe slot 2280/2210 M-key
Onboard Storage Controller	SATA3	NVMe and SATA3	SATA3
Connectivity	SIOM Network Card For Flexible Networking Options (not included, must add 1 per node)	SIOM Network Card For Flexible Networking Options (not included, must add 1 per node)	SIOM Network Card For Flexible Networking Options (not included, must add 1 per node)
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
Drive Bays	3 Hot-swap 3.5" SATA drive bays per node	6 hot-swap 2.5" drive bays per node (4 NVMe + 2 SATA) or (6 SATA)	6 hot-swap 2.5" SATA drive bays per node
Power Supply	Redundant 2000W Titanium Level (96%) (Full redundancy based on configuration and application load)	Redundant 2200W Titanium Level (96%) (Full redundancy based on configuration and application load)	Redundant 2200W Titanium Level (96%) (Full redundancy based on configuration and application load)
Cooling System	4x 80mm heavy duty PWM fans	4x 80mm heavy-duty PWM fans	4x 80mm heavy-duty PWM fans
Form Factor	2U (4-Node) Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U (4-Node) Rackmount 447 x 88 x 730mm (17.6" x 3.47" x 28.75")	2U (4-Node) Rackmount 447 x 88 x 730mm (17.6" x 3.47" x 28.75")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.
** For complete system only and AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache Technology requires liquid cooling.

H12 FATTWIN®
(For Complete System Only)

8 Nodes, Front I/O	8 Nodes, Rear IO	4 Nodes, Rear IO

MODEL	AS -F1114S-FT	AS -F1114S-RNTR	AS -F2014S-RNTR
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor*	Single AMD EPYC™ 7003/7002 Series Processor*	Single AMD EPYC™ 7003/7002 Series Processor*
Key Applications	• Hyperscale and Hyperconverged Solutions • Cloud Computing • Cluster Node • Data Center • HPC cluster computer nodes	• Hyperscale / Hyperconverged • HPC and Big Data • Data Center Enterprise Applications • Scale Out Storage • Telco Data Center • Virtualization Server	• Hyperscale / Hyperconverged • HPC and Big Data • Data Center Enterprise Applications • Scale Out Storage • Telco Data Center • Virtualization Server
Outstanding Features	• 8 nodes in a 4U system • 280W CPU support • Supports up to 64 cores • 2x LP PCIe x16 slots; 1x AIOM PCIe x16 slot per node • Supports 2-4x 2.5" SATA drives per node • Quad 2000W Titanium Level high-efficiency power supplies	• Up to 6 hot-swap optional SATA/NVMe drives per node • 4 onboard M.2 SATA/NVMe support per node • Flexible AIOM module per node • 1 PCIe add-on card per node • Up to 8 DIMMs per node	• Can support up to 8 SATA/NVMe drives per node • Can support up to 10 2.5" SATA drives • 4 onboard SATA/NVMe M.2 Support per node • Flexible AIOM module per node • 1 PCIe add-on cards per node • Up to 8 DIMMs per node
Serverboard	SUPER● H12SSFF-AN6	SUPER● H12SSFR-AN6	SUPER● H12SSFR-AN6
System Memory (Max.)	Up to 4TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 8 DIMM slots	Up to 2TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 8 DIMM slots
Expansion Slots	1 PCIe 4.0 x16 (AIOM) 2 PCIe 4.0 x16 (LP) per node	FatTwin Rear IO: PCIe 4.0 x16 LP Riser and PCIe 4.0 x8 Internal RAID AOC	FatTwin Rear IO: PCIe 4.0 x16 LP Riser and PCIe 4.0 x8 Internal RAID AOC
Onboard Storage Controller	NVMe and SATA3	NVMe and SATA3	NVMe and SATA3
Connectivity	AIOM Network Card For Flexible Networking Options (not included, must 1 per Node)	AIOM Network Card For Flexible Networking Options (not included, must add 1 per node)	AIOM Network Card For Flexible Networking Options (not included, must add 1 per node)
VGA/Audio	1 VGA; Aspeed AST2600 BMC per node	1 VGA, Aspeed AST2600 BMC per node	1 VGA, Aspeed AST2600 BMC per node
Management	IPMI 2.0, KVM with dedicated LAN, SSM, SUM SuperDoctor® 5, Watch Dog	IPMI 2.0, KVM with dedicated LAN, SSM, SUM SuperDoctor® 5, Watch Dog	IPMI 2.0, KVM with dedicated LAN, SSM, SUM SuperDoctor® 5, Watch Dog
Drive Bays	2-4x 2.5" SATA3/NVMe drive bays per node	4 hot-swap 2.5" SATA with 2 hot-swap 2.5" SATA/NVMe drive bays per node	8 Hot-swap 3.5" SATA drive bays per node
Power Supply	2000W or above Redundant Power Supplies with PMBus	Redundant 2200W Titanium Level (96%) power supplies (Full redundancy based on configuration and application load)	Redundant 2200W Titanium Level (96%) (Full redundancy based on configuration and application load)
Cooling System	8x 8cm 13.5k RPM rear fans per enclosure	3x 4cm 17.6K RPM	2x 80mm heavy duty PWM fans
Form Factor	4U (8-node) Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U (8-node) Rackmount 447 x 177 x 730mm (17.6" x 7" x 28.75")	4U (4-node) Rackmount 447 x 177 x 730mm (17.6" x 7" x 28.75")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

H13 HYPER
(For Complete System Only)

1U Hyper   2U Hyper   2U Hyper

MODEL	AS -1125HS-TNR	AS -2025HS-TNR	AS -2125HS-TNR
Processor Support	AMD EPYC™ 9004 Series Processors Dual Socket (Socket SP5)	AMD EPYC™ 9004 Series Processors Dual Socket (Socket SP5)	AMD EPYC™ 9004 Series Processors Dual Socket (Socket SP5)
Key Applications	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning
Outstanding Features	• Tool-less system design for easy maintenance	• Tool-less system design for easy maintenance	• Tool-less system design for easy maintenance
Serverboard	SUPER●® H13DSH	SUPER●® H13DSH	SUPER●® H13DSH
Chipset	System On Chip	System On Chip	System on Chip
System Memory (Max.)	Up to 6TB 3DS ECC RDIMM DDR5-4800MHz in 24 DIMMs	Up to 6TB 3DS ECC RDIMM DDR5-4800MHz in 24 DIMMs	Up to 6TB 3DS ECC RDIMM DDR5-4800MHz in 24 DIMMs
Expansion Slots	2 PCIe 5.0 x16 FH, 10.5"L and 1 PCIe 5.0 x16, FH, 6.6"L	Configurable PCIe slot options up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 FH, 10.5"L	Configurable PCIe slot options up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 FH, 10.5"L
Onboard Storage Controller	AMD SP5	AMD SP5	AMD SP5
Connectivity	AIOM / OCP 3.0	AIOM / OCP 3.0	AIOM / OCP 3.0
VGA/Audio	1 VGA port	1 VGA port	1 VGA port
Management	IPMICFG; IPMIView for Linux/ Windows; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMICFG; IPMIView for Linux/ Windows; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMICFG; IPMIView for Linux/ Windows; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	8x 2.5" hot-swap NVMe/SAS/SATA drives bays (Option for up to 12 drives); Optional RAID support via RAID Controller AOC	12x 3.5" hot-swap NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC	24x 2.5" hot-swap NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC
Power Supply	Redundant 1200W Titanium level (96%)	Redundant 1600W Titanium level (96%)	Redundant 1600W Titanium level (96%)
Cooling System	8x heavy-duty fans w/ Optimal Fan Speed Control	8x heavy-duty fans w/ optimal Fan Speed Control	4x heavy-duty fans w/ Optimal Fan Speed Control
Form Factor	1U Rackmount Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")	2U Rackmount Enclosure: 437 x 88.9 x 803mm (17.2" x 3.5" x 31.6") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")	2U Rackmount Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")

H13 HYPER-U

(For Complete System Only)

1U Hyper   *2U Hyper*   *2U Hyper*

MODEL	AS -1115HS-TNR	AS -2015HS-TNR	AS -2115HS-TNR
Processor Support	AMD EPYC™ 9004 Series Processor Single Socket (Socket SP5) supported4 UPI	AMD EPYC™ 9004 Series Processor Single Socket (Socket SP5) supported4 UPI	AMD EPYC™ 9004 Series Processor Single Socket (Socket SP5) supported4 UPI
Key Applications	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning
Outstanding Features	• Tool-less system design for easy maintenance	• Tool-less system design for easy maintenance	• Tool-less system design for easy maintenance
Serverboard	SUPER●® H13SSH	SUPER●® H13SSH	SUPER●® H13SSH
Chipset	System On Chip	System On Chip	System On Chip
System Memory (Max.)	24 DIMM slots Up to 3TB: DDR5-4800MHz (12 DIMM slots, 1DPC) Up to 6TB: DDR5-4000MHz/ 3600MHz (24 DIMM slots, 2DPC)	24 DIMM slots Up to 3TB: DDR5-4800MHz (12 DIMM slots, 1DPC) Up to 6TB: DDR5-4000MHz/ 3600MHz (24 DIMM slots, 2DPC)	24 DIMM slots Up to 3TB: DDR5-4800MHz (12 DIMM slots, 1DPC) Up to 6TB: DDR5-4000MHz/ 3600MHz (24 DIMM slots, 2DPC)
Expansion Slots	2 PCIe 5.0 x16 FH, 10.5"L and 1 PCIe 5.0 x16, FH, 6.6"L	Configurable PCIe slot options up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 FH, 10.5"L	Configurable PCIe slot options up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 FH, 10.5"L
Onboard Storage Controller	AMD SP5	AMD SP5	AMD SP5
Connectivity	via AIOM	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port	1 VGA port
Management	IPMICFG; IPMIView for Linux/ Windows; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMICFG; IPMIView for Linux/ Windows; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMICFG; IPMIView for Linux/ Windows; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	8x 2.5" hot-swap NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC	12x 3.5" hot-swap NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC	24x 2.5" hot-swap NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC
Power Supply	Redundant 1200W Titanium level (96%)	Redundant 1600W Titanium level (96%)	Redundant 1600W Titanium level (96%)
Cooling System	8x 4cm heavy duty fan(s)	4x 8cm heavy duty fan(s)	4x 8cm heavy duty fan(s)
Form Factor	1U Rackmount Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")	2U Rackmount Enclosure: 437 x 88.9 x 803mm (17.2" x 3.5" x 31.6") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")	2U Rackmount Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")

H12 ULTRA
(For Complete System Only)

1U Ultra, 8TB DDR4

1U Ultra, 12 NVMe

MODEL	AS -1024US-TRT	AS -1124US-TNRP
Processor Support	Dual AMD EPYC™ 7003/7002 Series Processors*	Dual AMD EPYC™ 7003/7002 Series Processors*
Key Applications	• Virtualization • Cloud Computing • High End Enterprise Server	• Virtualization • Cloud Computing • High End Enterprise Server
Outstanding Features	• Optional 4 NVMe ready • 32 DIMMs • 3+1 PCIe add-on cards • 4x 3.5" SATA/SAS/NVMe drive bays • 280W CPU support • Redundant Titanium Level (96%) power supplies • Maximum IO output in 1U platform	• 32 DIMMs • 3+1 PCIe add-on cards • 12-Port NVMe Gen 4.0/3.0 support • 280W CPU support • Redundant Titanium Level (96%) power supplies • Maximum IO output in 1U platform
Serverboard	SUPER● H12DSU-iN	SUPER● H12DSU-iN
System Memory (Max.)	Up to 8TB ECC DDR4 3200MHz SDRAM in 32 DIMMs	Up to 8TB ECC DDR4 3200MHz SDRAM in 32 DIMMs
Expansion Slots	2 PCIe x16 (FH /9.5"L) slots 1 PCIe x16 slot (LP) 1 PCIe x16 slot (internal LP)	2 PCIe x16 (FH /9.5"L) slots 1 PCIe x16 slot (LP) 1 PCIe x16 slot (internal LP)
Onboard Storage Controller	4 SATA3 (6 Gbps) ports; Optional 4 SAS3 drives support VS additional option parts or, Optional 4 NVMe drives support vs addition NVMe trays required.	12 hot-Swappable U.2 drives support; Optional 12 SAS3 /12SATA support with additional SAS/SATA Kit
Connectivity	Dual 10GBase-T RJ45 LAN ports via Intel Carlsville X710-AT2; 3 USB 3.0 ports (2 rear, 1 Type A)	Dual port 10G RJ45 & dual port 10G SFP+, Intel Carlsville X710-TM4; 4 USB 3.0 ports (1 front, 2 rear, 1 Type A)
VGA/Audio	1 VGA; 1 ASPEED AST2500 BMC	1 VGA; 1 ASPEED AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	4x hot-swap 3.5" drive bays support	12x hot-swap 2.5" drives support
Power Supply	1000W Redundant Titanium Level (96%+) power supplies (Full redundancy based on configuration and application load)	1200W Redundant Titanium Level (96%) power supplies (Full redundancy based on configuration and application load)
Cooling System	8 heavy-duty fans w/ Optimal Fan Speed Control	8 heavy-duty fans w/ optimal Fan Speed Control
Form Factor	437 x 43 x 754mm (17.2" x 1.7" x 29.7")	1U Rackmount 437 x 43 x 724mm (17.2" x 1.7" x 28.5")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

H12 ULTRA
(For Complete System Only)

2U Ultra, 8TB DDR4

2U Ultra, 24 NVMe

MODEL	AS -2024US-TRT	AS -2124US-TNRP
Processor Support	Dual AMD EPYC™ 7003/7002 Series Processors*	Dual AMD EPYC™ 7003/7002 Series Processors*
Key Applications	• Virtualization • Cloud Computing • High End Enterprise Server • Hyperconverge Storage	• Virtualization • Cloud Computing • High End Enterprise Server • Hyperconverge Storage
Outstanding Features	• 32 DIMMs • 5+1 PCIe add-on cards • 12x 3.5" SATA/SAS (SAS via AOC)/support up to 4 NVMe • 280W CPU support • 1600W redundant Titanium Level (96%) power supplies • Maximum IO output in 2U platform	• 32 DIMMs • 1 PCIe add-on cards • 24x 2.5" hot-swap NVMe drive bays • 280W CPU support • 1600W redundant Titanium Level (96%) power supplies • Maximum IO output in 2U platform
Serverboard	SUPER● ˙ H12DSU-iN	SUPER● ˙ H12DSU-iN
System Memory (Max.)	Up to 8TB ECC DDR4 3200MHz SDRAM in 32 DIMMs	Up to 8TB ECC DDR4 3200MHz SDRAM in 32 DIMMs
Expansion Slots	2 PCIe 4.0 x16 slots (FH, 10.5" L) 1 PCIe 4.0 x16 slot (FH, 9.5" L) 1 PCIe 4.0 x16 slot (LP) 1 PCIe 4.0 x8 slot (FH, 9.5" L, in x16 slot) 1 PCIe 4.0 x8 slot (internal LP, in x16 slot)	1 PCIe 4.0 x16 slot (FH, 9.5" L)
Onboard Storage Controller	8 SATA3 (6 Gbps) ports + 4 hybrid SATA/NVMe function ready for HDD slots 0~3 with additional NVMe HDD trays for NMVe drives; Optional 12 SAS3 drive support VS SAS card with cables	24x Hot-Swappable U.2 drive bays support with optional up to 24x SAS3 drive bays support VS SAS card and cables
Connectivity	Dual port 10G RJ45, Intel Carlsville X710-AT2; 3 USB 3.0 ports (2 rear + 1 Type A)	Dual 10G RJ45 & Dual 10G SFP+ ports, Intel Carlsville X710-TM4 3 USB 3.0 ports (2 rear, 1 Type A)
VGA/Audio	1 VGA; 1 ASPEED AST2500 BMC	1 VGA; 1 ASPEED AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	12x hot-swap 3.5" drive bays support	24x hot-swap 2.5" drive bays support
Peripheral Bays	2x 2.5" peripheral drive bays with additional rear drive bay kits + cable	N/A
Power Supply	1600W redundant Titanium Level (96%+) power supplies (Full redundancy based on configuration and application load)	1600W redundant Titanium Level (96%) power supplies (Full redundancy based on configuration and application load)
Cooling System	4x heavy-duty fans w/ optimal Fan Speed Control	4x heavy-duty fans w/ optimal Fan Speed Control
Form Factor	437 x 89 x 723mm (17.2" x 3.5" x 28.46")	2U Rackmount 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

H13 CloudDC

(For Complete System Only)

1U CloudDC   *1U CloudDC*   *2U CloudDC*

MODEL	AS -1015CS-TNR	AS -1115CS-TNR	AS -2015CS-TNR
Processor Support	AMD EPYC™ 9004 Series Processors Single Socket (Socket SP5)	AMD EPYC™ 9004 Series Processors Single Socket (Socket SP5)	AMD EPYC™ 9004 Series Processors Single Socket (Socket SP5)
Key Applications	• CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application	• CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application	• CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application
Outstanding Features	• Up to 4x SATA/SAS/NVMe tool-less drive bays • 3.5" tool-less drive trays also support 2.5" drives • Dual AIOM slots for flexible networking (OCP3.0) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (25.6") • 2 On-board Gen 3 M.2 NVMe 80mm/110mm (Boot)	• Up to 10x NVMe/SATA/SAS hybrid tool-less drive bays • Dual AIOM slots for flexible networking (OCP3.0) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (23.5") • 2 On-board Gen 3 M.2 NVMe 80mm/110mm (Boot)	• Up to 12x NVMe/SATA/SAS hybrid tool-less drive bays • Optional hot-swappable 2.5" rear drive bays • Flexible expansion with up to 2x PCIe 5.0 x16 and 4x PCIe 5.0 x8 (convertible to 2x PCIe 5.0 x16) slots • Dual AIOM slots for flexible networking (OCP3.0) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (25.6") • 3.5" tool-less drive trays also support 2.5" drives • 2 On-board Gen 3 M.2 NVMe 80mm/110mm (Boot)
Serverboard	SUPER●® H13SSW	SUPER●® H13SSW	SUPER●® H13SSW
Chipset	System on Chip	System on Chip	System on Chip
System Memory (Max.)	Up to 3TB 3DS ECC RDIMM DDR5-4800MHz in 12 DIMMs	Up to 3TB 3DS ECC RDIMM DDR5-4800MHz in 12 DIMMs	Up to 3TB 3DS ECC RDIMM DDR5-4800MHz in 12 DIMMs
Expansion Slots	2 Gen5 x16 FHHL slots	2 Gen5 x16 FHHL slots	2 Gen5 x16 FHHL slots 2 Gen5 x16 FHFL slots
Onboard Storage Controller	AMD SP5	AMD SP5	AMD SP5
Connectivity	Dual AIOM/ OCP3.0, 2 USB 3.0 ports (2 rear)	Dual AIOM/ OCP3.0, 2 USB 3.0 ports (2 rear)	Dual AIOM/ OCP3.0, 2 USB 3.0 ports (2 rear)
VGA/Audio	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 ASPEED AST2600 BMC
Management	IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	4x 3.5" hot-swap NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC	10x 2.5" hot-swap NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC	12x 3.5" hot-swap NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC
Peripheral Bays	2x 2.5" (optional)	N/A	N/A
Power Supply	Redundant 860W Platinum level (94%)	Redundant 860W Platinum level (94%)	Redundant 1200W Titanium level (96%)
Cooling System	6x 4cm heavy duty fans	6x 4cm heavy duty fans	3x 8cm heavy duty fans
Form Factor	1U Rackmount Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 605 x 197 x 878mm (23.8" x 7.8" x 34.6")	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 605 x 197 x 822mm (23.8" x 7.8" x 32.4")	2U Rackmount Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5") Package: 678 x 290 x 876mm (26.7" x 11.4" x 34.5")

H12 CLOUDDC
(For Complete System Only)

Cost Effective 1U

Cost Effective 2U

MODEL	AS -1114CS-TNR	AS -2014CS-TR
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor*	Single AMD EPYC™ 7003/7002 Series Processor*
Key Applications	• Financial Services • Cloud Computing • Network Appliance • Private Cloud • Content Delivery Network (CDN) • Deep Learning Inferencing	• Financial Services • Cloud Computing • Network Appliance • Private Cloud • Content Delivery Network (CDN) • Deep Learning Inferencing
Outstanding Features	• Dual AIOM slots for flexible networking • 2x PCIe 4.0 x16 FH/HL slots • 860W redundant Platinum Level power supplies • Tool-less drive trays and tool-less brackets • 280W CPU support • 16 DIMMs	• Dual AIOM slots for flexible networking • 4x PCIe 4.0 x16 (2 FH, 10.5"L) or 2x PCIe 4.0 x16 FH/HL + 4x PCIe 4.0 x8 FH/HL slots • 920W redundant Platinum Level high-efficiency power supplies • Tool-less drive trays and tool-less brackets • 280W CPU support • 16 DIMMs
Serverboard	SUPER●* H12SSW-AN6	SUPER●* H12SSW-AN6
System Memory (Max.)	Up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM, in 16 DIMMs slot	Up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM, in 16 DIMMs slot
Expansion Slots	2 PCIe 4.0 x16 (FH/HL)	4 PCIe 4.0 x16 (2 FH, 10.5"L) or, 2 PCIe 4.0 x16 (FH/HL) + 4 PCIe 4.0 x8(2 FH/HL, 2 FH/HL)
Onboard Storage Controller	10x hot-swappable SATA drives bays support; Optional 10x SAS3/ NVMe support with additional SAS/NVMe kit	12x 3.5" SATA /SAS (SAS via AOC)/NVMe drive bays with optional kit + 2x 2.5" (with optional kit)
Connectivity	Dual AIOM slots, 2 USB 3.0 ports (2 rear)	Dual AIOM slots, 2 USB 3.0 ports (2 rear)
VGA/Audio	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 ASPEED AST2600 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	10x hot-swap 2.5" drive bays support	12x hot-swap 3.5" drive bays support
Peripheral Bays	N/A	2x 2.5" Peripheral drive bays with additional rear drive bay kits + cable
Power Supply	860W redundant Platinum Level high-efficiency power supplies	920W redundant Platinum Level high-efficiency power supplies
Cooling System	6x 40x40x56mm counter-rotation PWM fans	3x 80x80x38mm middle cooling fans
Form Factor	1U Rackmount 437 x 43 x 597mm (17.2" x 1.7" x 23.5")	2U Rackmount 437 x 89 x 648mm (17.2" x 3.5" x 25.5")

 * AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

H13 STORAGE SERVERS
(For Complete System Only)

MODEL	ASG-1115S-NE316R	ASG-2115S-NE332R
Processor Support	AMD EPYC™ 9004 Series Processor (the latest AMD EPYC™ 9004 Series Processor with AMD 3D V-Cache™ Technology) Single Socket (Socket SP5) supported TDP up to 300W; 4 UPI	AMD EPYC™ 9004 Series Processor (the latest AMD EPYC™ 9004 Series Processor with AMD 3D V-Cache™ Technology) Single Socket (Socket SP5) supported TDP up to 300W; 4 UPI
Key Applications	• In-Memory Computing • Software-defined Storage • NVMe Over Fabrics Solution • Private & Hybrid Cloud • Data Intensive HPC	• In-Memory Computing • Software-defined Storage • NVMe Over Fabrics Solution • Private & Hybrid Cloud • Data Intensive HPC
Outstanding Features	• Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant) • Supports 24 DIMMs with 2DPC, up to 6TB memory capacity with 24 DIMMs of 256GB 3DS RDIMM/RDIMM DDR5 ECC memory • Single Socket SP5 4th Generation AMD EPYC 9004 Scalable processors. Up to 300W TDP. • Redundant Titanium 1600W Power Supplies • Composable Infrastructure Platform	• Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant) • Supports 24 DIMMs with 2DPC, up to 6TB memory capacity with 24 DIMMs of 256GB 3DS RDIMM/RDIMM DDR5 ECC memory • Single Socket SP5 4th Generation AMD EPYC 9004 Scalable processors. Up to 300W TDP. • Redundant Titanium 2000W Power Supplies • Composable Infrastructure Platform
Serverboard	SUPER● ® H13SSF	SUPER● ® H13SSF
Chipset	AMD SP5	AMD SP5
System Memory (Max.)	24 DIMM slots Up to 6TB: 24x 256 GB DRAM 4800MHz ECC DDR5 RDIMM;LRDIMM	
Expansion Slots	2 PCIe 5.0 x16 AIOM slot(s) 2 PCIe 5.0 x16 FH slot(s)	2 PCIe 5.0 x16 AIOM slot(s) 2 PCIe 5.0 x16 FH slot(s)
Onboard Storage Controller	N/A	N/A
Connectivity	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	IPMI 2.0; NMI; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; NMI; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	16x E3.S Hot-swap NVMe (1T/2T) drive slots	
Power Supply	Redundant 1600W Titanium level (96%)	Redundant 2000W Titanium level (96%)
Cooling System	8x 4cm heavy duty fan(s)	4x 8cm heavy duty fan(s)
Form Factor	1U Rackmount Enclosure: 438.4 x 43.6 x 773.25mm (17.2" x 1.7" x 30.4") Package: 604.774 x 199.898 x 1029.97mm (23.81" x 7.87" x 40.55")	2U Rackmount Enclosure: 438.4 x 89.8 x 789.9mm (17.2" x 3.5" x 30.8")

H13 SHORT-DEPTH FRONT I/O
(For Complete System Only)

Short-Depth AC

Short-Depth DC

MODEL	AS‑1115S‑FWTRT	AS‑1115S‑FDWTRT
Processor Support	Single Socket AMD EPYC™ 8004 Series Processor up to 225W	Single Socket AMD EPYC™ 8004 Series Processor up to 225W
Key Applications	• Virtualization • Edge Cloud AI Computing • vRAN/O-RAN/NEBS environment • Telco 5G • CDN/vCDN/Cloud CDN	• Virtualization • Edge Cloud AI Computing • vRAN/O-RAN/NEBS environment • Telco 5G • CDN/vCDN/Cloud CDN
Outstanding Features	• NEBS compliant design • 3 PCIe 5.0 x16 expansion slots • Supports double width GPU • 2 On-board PCIe 3.0 x4 M.2 NVMe 80mm/110mm (Boot)	• NEBS compliant design • 3 PCIe 5.0 x16 expansion slots • Supports double width GPU • 2 On-board PCIe 3.0 x4 M.2 NVMe 80mm/110mm (Boot)
Serverboard	SUPER●® H13SVW-NT	SUPER●® H13SVW-NT
System Memory (Max.)	6 DIMM slots, DDR5-4800MHz memory, support up to 576GB	6 DIMM slots, DDR5-4800MHz memory, support up to 576GB
Expansion Slots	Slot 1: PCIe 5.0 x16 FHFL Slot 2: PCIe 5.0 x16 FHFL Slot 3: PCIe 5.0 x16 LP	Slot 1: PCIe 5.0 x16 FHFL Slot 2: PCIe 5.0 x16 FHFL Slot 3: PCIe 5.0 x16 LP
Onboard Storage Controller	System on Chip	System on Chip
Connectivity	2x 10Gb RJ45 port(s) with Broadcom BCM57416 via AIOM	2x 10Gb RJ45 port(s) with Broadcom BCM57416 via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	2x 2.5" SATA/SAS/NVMe drive bays; 2x 2.5" NVMe hybrid;	2x 2.5" SATA/SAS/NVMe drive bays; 2x 2.5" NVMe hybrid;
Power Supply	2x 800W Redundant AC Platinum Level power supplies	2x 600W Redundant DC power supplies
Cooling System	6x (40cm x 40cm x 56 mmcm) heavy duty fan(s)	6x (40cm x 40cm x 56 mmcm) heavy duty fan(s)
Form Factor	1U Rackmount Enclosure: 436.88 x 44.5 x 429.3mm (17.2" x 1.7" x 16.9") Package: 685 x 203 x 609mm (27" x 8" x 24")	1U Rackmount Enclosure: 436.88 x 44.5 x 429.3mm (17.2" x 1.7" x 16.9") Package: 685 x 203 x 609mm (27" x 8" x 24")

H12 WIO / STORAGE
(For Complete System Only)

2U UP WIO

High Capacity Storage

MODEL	AS -2114S-WN24RT	ASG-1014S-ACR12N4H
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor*; TDP up to 280W	Single AMD EPYC™ 7003/7002 Series Processor* TDP up to 240W
Key Applications	• Virtualization • Hyperconverge Storage • Cloud Computing • All Flash Storage	• Object Storage • Scale-Out Density • Database Applications • Hadoop & Ceph storage solutions
Outstanding Features	• 24-Port NVMe SSD Support • Up to 4TB DDR4 ECC RDIMM • Dual 10GBaseT LAN Ports • 2x M.2 Support by default • 2 SATA DOMs Support with Embedded Power	• Up to 4TB ECC DDR4 • 4x 2.5" 7mm hot-swap NVMe drive bays • 3x PCIe 4.0 x16 slots (1x slot occupied by storage controller) • Pull-out drawer storage bay w/internal cable arm design
Serverboard	SUPER●* H12SSW-NTR	SUPER●* H12SSW-NTR
System Memory (Max.)	Up to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMM slots	Up to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMMs
Expansion Slots	1 PCIe 4.0 x16 (FH/HL)	2 PCIe 4.0 x16 (FHHL); 1 PCIe 4.0 x8 (LP)
Onboard Storage Controller	24 Hot-Swappable U.2 NVMe drive support	NVMe drive bays via CPU SAS3/SATA3 drive bays via Broadcom 3916 RAID controller
Connectivity	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 5 USB 3.0 ports (4 rear, 1 Type A)	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 2 USB 2.0 port(s) (2 Front_USB) 4 USB 3.0 port(s) (4 Rear_USB)
VGA/Audio	1 VGA 1 Aspeed AST2500 BMC	1 VGA; 1 ASPEED AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	24 Hot-Swappable U.2 NVMe drive support	12x 3.5" SAS/SATA drive bays; 4x 2.5" 7mm NVMe drive bays
Power Supply	1200W Redundant Power Supplies Titanium Level (96%) (Full redundancy based on configuration and application load)	800W redundant Platinum Level high-efficiency power supplies
Cooling System	3 heavy duty fans w/ Optimal Fan Speed Control	6x 40x40x56mm counter-rotation PWM fans
Form Factor	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")	1U Rackmount 447 x 43 x 940mm (17.6" x 1.7" x 37")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

H12 SUPERBLADE®
(For Complete System Only)

MODEL	SBA-4114S-C2N	SBA-4114S-T2N	SBA -4119SG
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor*; TDP up to 280W	Single AMD EPYC™ 7003/7002 Series Processor*; TDP up to 280W	Single AMD EPYC™ 7003/7002 Series Processor*; TDP up to 280W
Key Applications	• Resource saving and high density • Data center • HPC • EDA	• Resource saving and high density • Data center • HPC • EDA	• Resource saving and high density • Data center • HPC • Cloud Gaming, Inference
Outstanding Features	• 2x hot-plug 2.5" NVMe/SAS3/SATA3 drive bays • 2 NVMe/SATA M.2 • 2x 25G on board • Flexible AIOM module per node	• 2x hot-plug 2.5" NVMe/SATA3 drive bays • 2 NVMe/SATA M.2 • 2x 25G on board • Flexible AIOM module per node	• 1 NVMe/SATA M.2 • 2 PCIe 4.0 x16 slots • 2x 25G on board
Serverboard	MBD-BH12SSI-M25	MBD-BH12SSI-M25	MBD-BH12SSI-M25
System Memory (Max.)	Up to 2TB DDR4-3200MHz RDIMM	Up to 2TB DDR4-3200MHz RDIMM	Up to 2TB DDR4-3200MHz RDIMM
Expansion Slots	N/A	N/A	2 PCIe 4.0 x16
Onboard Storage Controller	Broadcom 3108	AMD SP3	AMD SP3
Connectivity	25G Ethernet/100G EDR/200G HDR; Optional AIOM Network Card	25G Ethernet/100G EDR/200G HDR; Optional AIOM Network Card	25G Ethernet/100G EDR/200G HDR
VGA/Audio	N/A	N/A	N/A
Management	IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN
Drive Bays	2x hot-plug 2.5" NVMe/SAS3/SATA3 drive bays; 2x M.2 NVMe/SATA3	2x hot-plug 2.5" NVMe/SATA3 drive bays; 2x M.2 NVMe/SATA3	1x M.2 NVMe/SATA3
Power Supply	N/A	N/A	N/A
Cooling System	Passive HS for CPU	Passive HS for CPU	Passive HS for CPU
SuperBlade Enclosures	820C 820H 820J 820L	820C 820H 820J 820L	820C 820H 820J 820L

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

H12 SUPERBLADE®
(For Complete System Only)

Up to 20 hot-plug server blades

Rear View

Up to 20 hot-plug server blades

Rear View

MODEL	SBE-820C	SBE-820J
Server Blade	Up to 20 hot-plug server blades	Up to 20 hot-plug server blades
Module Support	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG
LED	• Fault LED • Power LED	• Fault LED • Power LED
InfiniBand Switch	1x 100G EDR IB or OPA switch	N/A
Gigabit Ethernet Switch	Up to 2 hot-plug 25G Ethernet Switches	Up to 4 hot plug 25G Ethernet switch
Management Module	1 hot-plug management module providing remote KVM and IPMI 2.0 functionalities	2 hot-plug management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	4/6/8 hot-swap 2200W power supplies, up to N+N redundancy, 4 pcs of 1200W BBP, 3 optional cooling fan modules(PWS-DF005-2F)	4/6/8 hot-swap 2200W power supplies, up to N+N redundancy, 4 pcs of 1200W BBP, 3 optional cooling fan modules(PWS-DF005-2F)
Cooling Design	Front to back	Front to back
Dimensions (HxWxD)	356 x 447 x 812.8mm (14" x 17.6" x 32")	356 x 447 x 812.8mm (14" x 17.6" x 32")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

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H12 SUPERBLADE®
(For Complete System Only)

Up to 20 hot-plug server blades

Up to 20 hot-plug server blades

Rear View

Rear View

MODEL	SBE-820L	SBE-820H
Server Blade	Up to 20 hot-plug server blades	Up to 20 hot-plug server blades
Module Support	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG
LED	• Fault LED • Power LED	• Fault LED • Power LED
InfiniBand Switch	N/A	1x 200G HDR IB switch
Gigabit Ethernet Switch	Up to 2 hot-plug 10G Ethernet Switches	Up to 2 hot-plug 25G Ethernet Switches
Management Module	1 hot-plug CMM (Central Management Modules) providing remote KVM and IPMI 2.0 functionalities	1 hot-plug management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	4/6/8pcs hot-swap 2200W power supplies, up to N+N redundancy, 3 optional cooling fan modules (PWS-DF005-2F)	4/6/8 hot-swap 2200W power supplies, up to N+N redundancy, 4 pcs of 1200W BBP, 3 optional cooling fan modules(PWS-DF005-2F)
Cooling Design	Front to back	Front to back
Dimensions (HxWxD)	356 x 447 x 812.8mm (14" x 17.6" x 32")	356 x 447 x 812.8mm (14" x 17.6" x 32")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

SUPERMICRO®

H12 Mainstream

2U UP

2U DP

MODEL	AS -2014S-TR	AS -2024S-TR	AS -3014TS-i	AS -5014A-TT
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor; TDP up to 280W	Dual AMD EPYC™ 7003/7002 Series Processors	Single AMD EPYC™ 7003/7002 Series Processors*; TDP up to 280W	AMD Ryzen™ Threadripper™ PRO 3000WX Series Processor, up to 64 Cores
Key Applications	• Backup storage • Web or Database Servers • Compact Network Appliance	• Data processing & Storage • Cloud Computing • Hosting & Application delivery • Cloud and Virtualization needs • Content Delivery Network (CDN)	• Entry-Level Worksation • Video and Music Production • Office Applications	• Media and Entertainment Content Creation • Product Design and Engineering Simulation • AI and Deep Learning
Outstanding Features	• 12x 3.5" hot-swap drive bays • Up to 2TB DDR4 ECC RDIMM • 2x 1GbE LAN • 2x M.2 Support	• 6 PCIe Gen4 expansion slots for next generation AOC • Tool-less Drive Trays and Tool-less Brackets • 920W Redundant Platinum Level High-Efficiency Power Supplies • 12x 3.5/2.5" Hot-swap drive bays with NVMe support	• 4x 3.5" internal SATA HDD Bays • Up to 2TB DDR4 ECC RDIMM • 2x 1GbE LAN • 2x M.2 Support	• 5U Rackmountable / Tower • 6 PCIe 4.0 x16 slots • M.2 Support • 10GBase-T LAN port, 1x 1GbE LAN port
Serverboard	SUPER● H12SSL-i	SUPER● H12DSi-N6	SUPER● H12SSL-i	SUPER● M12SWA-TF
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	AMD WRX80
System Memory (Max.)	Up to 2TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM in 8 DIMM slots	Up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM in 16 DIMM slots	Up to 2TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM, in 8 DIMM slots	Up to 2TB ECC DDR4 3200-MHz Memory, in 8 DIMM slots
Expansion Slots	5 PCIe 4.0 x16 LP slots 2 PCIe 4.0 x8 LP slots	3 PCIe 4.0 x16 LP slots 3 PCIe 4.0 x8 LP slots	5 PCIe 4.0 x16 (FH) 2 PCIe 4.0 x8 (FH)	6 PCIe 4.0 x16 slots M.2 Interface: 4 PCIe 4.0 x4, RAID 0, 1, 5 & 10 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key
Onboard Storage Controller	SP3	SP3	SP3	4 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
Connectivity	Dual Gigabit Ethernet via Broadcom BCM5720 Controller; 5 USB 3.0 ports (4 rear, 2 via header)	Dual Gigabit Ethernet via Broadcom BCM5720 Controller 2 USB 2.0 and 2 USB 3.0 ports in the rear	Dual Gigabit Ethernet via Broadcom BCM5720 Controller; 5 USB 3.0 ports (4 rear, 2 via header)	10GBase-T LAN port, 1x 1GbE LAN port (shared with IPMI)
VGA/Audio	1 VGA 1 Aspeed AST2500 BMC	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 Aspeed AST2500 BMC	1 VGA port (dedicated for IPMI); 7.1 HD Audio
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Intel® Node Manager, IPMI 2.0, SSM, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	12 Hot-Swappable 3.5"/ 2.5" SATA/NVMe drive bays; Optional 2x 2.5" SATA/NVMe drive support with optional kits	12x hot-swap 3.5/2.5" SATA/NVMe drive bays; 4 NVMe and 8 SATA default configuration"	4x internal 3.5" SATA/NVMe drive bays; 4x 2.5" SATA/NVMe drive bays	4x internal fixed 3.5"/2.5" SATA/NVMe drive bays; 2x front fixed 2.5" SATA/NVMe drive bays
Power Supply	920W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)	920W redundant Platinum Level High-Efficiency power supplies	900W redundant Gold Level power supplies	2000W Platinum Level power supply
Cooling System	3 heavy duty fans w/ Optimal Fan Speed Control	3 heavy duty fans w/ Optimal Fan Speed Control	2 system fans w/ Optimal Fan Speed control	1x 12cm rear exhaust fan, 3x 12cm front cooling fans (optional), 3x 12cm top cooling fans (optional) ; Optional high-performance closed-loop water cooling for CPU
Form Factor	437 x 89 x 648mm (17.2" x 3.5" x 25.5")	437 x 89 x 648mm (17.2" x 3.5" x 25.5")	Mid-Tower 193 x 424 x 525mm (7.6" x 16.7" x 20.68")	5U Rackmountable / Tower 222 x 535 x 573 mm (21.06" x 8.74" x 22.56")

AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

H13 WIO

MODEL	AS -1015SV-WTNRT	AS -1115SV-WTNRT	AS -2015SV-WTNRT
Processor Support	AMD EPYC™ 8004 series Processors Single Socket SP6 supported	AMD EPYC™ 8004 series Processors Single Socket SP6 supported	AMD EPYC™ 8004 series Processors Single Socket SP6 supported
Key Applications	• Virtualization • Edge/Cloud Computing Services • Database/Storage • Firewall Applications • Data Center Optimized	• Virtualization • Edge/Cloud Computing Services • Database/Storage • Firewall Applications • Data Center Optimized	• Virtualization • Edge/Cloud Computing Services • Database/Storage • Firewall Applications • Data Center Optimized
Outstanding Features	• PCIe 5.0 NVMe drives supported • Maximum I/O. Support 3 x16 expansion slots in 1U form factor • Flexible I/O expansion • Cost optimized H13 solution	• PCIe 5.0 NVMe drives supported • Maximum I/O. Support 3 x16 expansion slots in 1U form factor • Flexible I/O expansion • Cost optimized H13 solution	• PCIe 5.0 NVMe drives supported • Maximum I/O. Support up to 2 PCIe Gen 5 x16 expansion slots, and 2 PCIe Gen 5 x8 expansion slots • Flexible I/O expansion • Cost optimized H13 solution
Serverboard	SUPER● ® H13SVW-NT	SUPER● ® H13SVW-NT	SUPER● ® H13SVW-NT
System Memory (Max.)	System On Chip	System On Chip	System On Chip
Expansion Slots	Slot 1: PCIe 5.0 x16 FHFL Slot 2: PCIe 5.0 x16 FHFL Slot 3: PCIe 5.0 x16 LP	Slot 1: PCIe 5.0 x16 FHFL Slot 2: PCIe 5.0 x16 FHFL Slot 3: PCIe 5.0 x16 LP	2 PCIe 5.0 x16 FHFL slot(s) 2 PCIe 5.0 x8 LP slot(s)
Onboard Storage Controller			
Connectivity	2x 10Gb RJ45 port(s) with Broadcom BCM57416 via AIOM	2x 10Gb RJ45 port(s) with Broadcom BCM57416 via AIOM	2x 10Gb RJ45 port(s) with Broadcom BCM57416 via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port	1 onboard VGA port
Management			
Drive Bays	4x 3.5" hot-swap SATA/SAS/NVMe drive bays;	10x 2.5" hot-swap SATA/SAS/NVMe drive bays; 6x 2.5" NVMe hybrid;	12x 3.5" hot-swap SATA/SAS/NVMe drive bays; 6x 3.5" NVMe hybrid;
Peripheral Bays			
Power Supply	None	None	None
Cooling System	6x (40cm x 40cm x 56 mmcm) heavy duty fan(s)	6x (40cm x 40cm x 56 mmcm) heavy duty fan(s)	3x (80cm x 80cm x 38 mmcm) heavy duty fan(s)
Form Factor	1U Rackmount Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 597 x 216 x 856mm (23.5" x 8.5" x 33.7")	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 597 x 197 x 800mm (23.5" x 7.75" x 31.5")	2U Rackmount Enclosure: 437 x 89 x 650mm (17.2" x 3.5" x 25.6") Package: 673 x 292 x 864mm (26.5" x 11.5" x 34")

H12 WIO

1U UP WIO　　　　*1U 10NVMe, UP WIO*　　　　*1U UP WIO*

MODEL	AS -1014S-WTRT	AS -1114S-WN10RT**	AS -1114S-WTRT
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor* TDP up to 240W	Single AMD EPYC™ 7003/7002 Series Processor* TDP up to 280W	Single AMD EPYC™ 7003/7002 Series Processor* TDP up to 240W
Key Applications	• Database Processing & Storage • Data Center • FireWall Applications	• Virtualization • Cloud Computing • All Flash Storage	• Database Processing & Storage • Data Center • FireWall Applications
Outstanding Features	• Support up to 3 PCIe cards • Up to 2TB DDR4 ECC RDIMM • Dual 10GBaseT LAN ports • 2x M.2 support by default • 2 SATA DOMs support with embedded power	• 10-Port NVMe SSD support • Up to 4TB DDR4 ECC RDIMM • Dual 10GBaseT LAN ports • 2x M.2 Support by default • 2 SATA DOMs support with embedded power • 10 Gen4/ Gen3 U.2 NVMe SSD support	• Support up to 3 PCIe cards • Up to 2TB DDR4 ECC RDIMM • Dual 10GBaseT LAN Ports • 2x M.2 Support by default • 2 SATA DOMs Support with Embedded Power
Serverboard	• SUPER● ® H12SSW-NT	SUPER● ® H12SSW-NTR	• SUPER● ® H12SSW-NT
System Memory (Max.)	Up to 2TB 3DS ECC DDR4-3200MHz RDIMM/ LRDIMM, in 8 DIMM slots	Up to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 8 DIMM slots
Expansion Slots	2 PCIe 4.0 x16 (FH/HL) slots 1 PCIe 4.0 x16 (LP) slot	2 PCIe 4.0 x16 (FH/HL) slots 1 PCIe 4.0 x16 (LP) slot	2 PCIe 4.0 x16 (FH/HL) slots 1 PCIe 4.0 x16 (LP) slot
Onboard Storage Controller	4 Hot-Swappable 3.5" SATA drive support; Optional 4 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required	10 Hot-Swappable U.2 NVMe drive support; Optional 10 SATA3 drive support vs additional SATA cables required	10 Hot-Swappable 2.5" SATA drive support; Optional 2 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required
Connectivity	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 7 USB 3.0 ports (4 rear, 2 front, 1 Type A)	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 7 USB 3.0 ports (4 rear, 2 front, 1 Type A)	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 7 USB 3.0 ports (4 rear, 2 front, 1 Type A)
VGA/Audio	1 VGA 1 Aspeed AST2500 BMC	1 VGA 1 Aspeed AST2500 BMC	1 VGA 1 Aspeed AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port; Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port; Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management
Drive Bays	4 Hot-Swappable 3.5" SATA drive support; Optional 4 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required	10 Hot-Swappable U.2 NVMe drive support; Optional 10 SATA3 drive support vs additional SATA cables required	10 Hot-Swappable 2.5" SATA drive support; Optional 2 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required
Peripheral Bays	Optional to support 1x Slim DVD-ROM Drive	N/A	N/A
Power Supply	500W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)	750W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)	500W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)
Cooling System	4 heavy duty fans w/ Optimal Fan Speed Control, Additional 1 heavy duty fan support w/ Optimal Fan Speed Control	6 heavy duty fans w/ Optimal Fan Speed Control	4 heavy duty fans w/ Optimal Fan Speed Control, Additional 1 heavy duty fan support w/ Optimal Fan Speed Control
Form Factor	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	437 x 43 x 597mm (17.2" x 1.7" x 23.5")	437 x 43 x 597mm (17.2" x 1.7" x 23.5")

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.
** For complete system only

H13 MOTHERBOARDS

MODEL	H13DSH	H13DSG-O-CPU
Processor	AMD EPYC™ 9004 Series Processors	AMD EPYC™ 9004 Series Processors
Chipset	System on Chip	System on Chip
Form Factor	Proprietary, 17" x 11.5" (43.18cm x 29.21cm)	Proprietary, 17" x 14.7" (43.18cm x 37.34cm)
Memory Capacity & Slots	Up to 6TB 3DS ECC RDIMM DDR5-4800MHz in 24 DIMMs	Up to 6TB 3DS ECC RDIMM DDR5-4800MHz in 24 DIMMs
Expansion Slots	1 PCIe 5.0 x16 AIOM / OCP 3.0 2 PCIe 5.0 x16 (in x16 slot) M.2 Interface: 2 PCIe 3.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCIe 5.0 x16 AIOM / OCP 3.0 M.2 Interface: 1 PCIe 3.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key
Onboard Storage Controller	N/A	Asmedia ASM1061
Onboard LAN	N/A	N/A
Onboard VGA	1 Aspeed AST2600 BMC port(s)	N/A
USB Ports	2 USB 3.1 Gen1 ports via header	1 USB 2.0 port via header
Other Onboard I/O Devices	TPM 2.0 header 4 MCIO (PCIe 5.0 x8/SATA3) ports 6 MCIO (PCIe 5.0 x8) ports	TPM 2.0 header 20 MCIO (PCIe 5.0 x8) ports
Manageability	SuperDoctorR 5, SPM, SUM, SSM, Watchdog, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, IPMI 2.0, KVM with dedicated LAN	SuperDoctorR 5, SPM, SUM, SSM, Watchdog, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, IPMI 2.0, KVM with dedicated LAN
PC Health Monitoring	VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby	VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
Thermal Control	8x 6-pin fan headers (up to 8 fans)	10x 4-pin fan headers (up to 10 fans)
Other Features	RoT	RoT
BIOS	AMI 32MB SPI Flash EEPROM	AMI 32MB SPI Flash EEPROM

H13 MOTHERBOARDS

MODEL	H13SST-G H13SST-GC	H13SSW
Processor	AMD EPYC™ 9004 Series Processors	AMD EPYC™ 9004 Series Processors
Chipset	System on Chip	System on Chip
Form Factor	Proprietary GrandTwin, 8.53" x 12.42" (21.67cm x 31.55cm)	Proprietary, 12.29" x 13.4" (31.22cm x 34.04cm)
Memory Capacity & Slots	Up to 3TB 3DS ECC RDIMM DDR5-4800MHz in 12 DIMMs	Up to 3TB 3DS ECC RDIMM DDR5-4800MHz in 12 DIMMs
Expansion Slots	M.2 Interface: 2 SATA/PCIe 5.0 x4 Form Factor: 2280 M.2 Key: M-Key	1 PCIe 5.0 x16 Right Riser Slot 1 PCIe 5.0 x16 Left Riser Slot 2 PCIe 5.0 x16 AIOM / OCP 3.0 M.2 Interface: 2 PCIe 3.0 x2 Form Factor: 2280/22110 M.2 Key: M-Key
Onboard Storage Controller	-GC: Broadcom 3808 SAS3 (12 Gbps) controller for 8 SAS3 (12 Gbps) ports	N/A
Onboard LAN	N/A	N/A
Onboard VGA	1 Aspeed AST2600 BMC port(s)	1 VGA port(s) 1 Aspeed AST2600 BMC port(s)
USB Ports	N/A	2 USB 2.0 port(s) via header 2 USB 3.1 Gen1 ports
Other Onboard I/O Devices	1 MCIO (PCIe 5.0 x8/SATA3) ports 4 MCIO (PCIe 5.0 x8) ports -GC: 8 SAS3 ports via SlimSAS	1 COM Port (1 Serial Port) TPM 2.0 header 2 MCIO (PCIe 5.0 x8/SATA3) ports 6 MCIO (PCIe 5.0 x8) ports
Manageability	SuperDoctor® 5, SPM, SUM, SSM, Watchdog, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, IPMI 2.0, KVM with dedicated LAN	SuperDoctor® 5, SPM, SUM, SSM, Watchdog, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, IPMI 2.0, KVM with dedicated LAN
PC Health Monitoring	VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby	VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
Thermal Control	1x 4-pin fan header (up to 1 fan)	6x 4-pin fan headers (up to 6 fans)
Other Features	RoT	RoT
BIOS	AMI 32MB SPI Flash EEPROM	AMI 32MB SPI Flash EEPROM

H12 MOTHERBOARDS

MODEL	H12SSL-i H12SSL-C H12SSL-CT H12SSL-NT	H12DSi-N6 H12DSi-NT6
Processor	Single AMD EPYC™ 7003/7002 Series Processor*	Dual AMD EPYC™ 7003/7002 Series Processors*
Chipset	System on Chip	System on Chip
Form Factor	ATX 12" x 9.6"	EATX 12" x 13.05"
Memory Capacity & Slots	2TB ECC Registered, DDR4-3200MHz SDRAM in 8 DIMMs	4TB ECC Registered, DDR4-3200MHz SDRAM in 16 DIMMs
Expansion Slots	5 PCIe 4.0 x16 2 PCIe 4.0 x8 M.2 Interface: 2 PCIe 4.0 x4 M.2 Form Factor: 22110, 2280 M.2 Key: M-Key	3 PCIe 4.0 x16 3 PCIe 4.0 x8 M.2 Interface: 1 PCIe 4.0 x4 M.2 Form Factor: 22110, 2280 M.2 Key: M-Key
Onboard Storage Controller	-C: Broadcom 3008 SAS3 (12 Gbps) controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10 -CT: Broadcom 3008 SAS3 (12 Gbps) controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10	10 SATA3 (6 Gbps) ports
Onboard LAN	-i: Dual LAN with Broadcom BCM5720L Gigabit Ethernet Controller -C: Dual LAN with Broadcom BCM5720L Gigabit Ethernet Controller -CT: Dual LAN with Broadcom BCM57416 10GBase-T Ethernet Controller -NT: Dual LAN with Broadcom BCM57416 10GBase-T Ethernet Controller	-N6: Dual LAN with Broadcom BCM5720L Gigabit Ethernet Controller -NT6: Dual LAN with Broadcom BCM57416 10GBase-T Ethernet Controller
Onboard VGA	1 VGA; Aspeed AST2500 BMC	1 VGA; Aspeed AST2600 BMC
USB Ports	6 USB 3.0 ports (4 rear + 2 headers)	2 USB 2.0 ports (2 rear) 4 USB 3.0 ports (2 rear + 2 headers)
Other Onboard I/O Devices	1 COM Ports SATA DOM power connector TPM 1.2/ 2.0 header -i: 1 PCIe 4.0 NVMe x4 Internal Port -NT: 2 PCIe 4.0 NVMe x4 Internal Ports	1 COM Ports SATA DOM power connector TPM 1.2/ 2.0 header 4 PCIe 4.0 NVMe x4 Internal Ports
Manageability	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5
PC Health Monitoring	+3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages, Supports system management utility, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, CPU temperature, LAN temperature, Memory temperature, Memory Voltages, Monitors CPU voltages
Thermal Control	7x fan header, 4-pin type of fan header, 7 fans with tachometer status monitoring, Dual Cooling Zone, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control	8x fan header, 4-pin type of fan header, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, UID	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, UID, WOL
BIOS	AMI 256Mb Flash EEPROM	AMI 256Mb Flash EEPROM

* AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.

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