

X13 6U SUPERBLADE®



3 SATA/NVMe
DP/32 DIMM



3 SAS/NVMe
DP/32 DIMM



3 SATA/NVMe
DP/32 DIMM

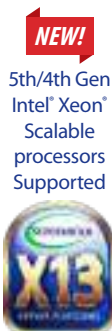


MODEL	SBI-621E-1T3N	SBI-621E-1C3N	SBI-621E-5T3N
Server Nodes/ Enclosure	10	10	5
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 205W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 205W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled)
Chipset	Intel® C741 chipset	Intel® C741 chipset	Intel® C741 chipset
System Memory (Max.)	Up to 4TB; 32 DDR5 DIMM slots, 1DPC speeds up to 5600 MT/s	Up to 8TB; 32 DDR5 DIMM slots, 1DPC speeds up to 5600 MT/s or 2DPC speeds up to 4400 MT/s	32 DIMM slots DDR5-5600MT/s 1DPC speeds up to 5600 MT/s
PCIe Expansion	N/A	N/A	N/A
Storage & RAID	3 hot-swap U.2 NVMe/SATA drive bays Intel® PCH 3.0 SATA controller	2 hot-swap U.2 NVMe/SAS drive bays & 1 hot- swap SAS drive bay; HW RAID w/ 3108	3 hot-swap U.2 NVMe/SATA drive bays Intel® PCH 3.0 SATA Controller
Networking	Mezzanine option for dual 25GbE dual 25GbE LOM	Mezzanine option for Dual 25GbE Dual 25GbE LOM	Mezzanine option for Dual 25GbE Dual 25GbE LOM
Management	Redundant Chassis Management Modules, Open Industry Standard IPMI 2.0 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / HW Root of Trust / Chassis Management Module	Redundant Chassis Management Modules, Open Industry Standard IPMI 2.0 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / HW Root of Trust / Chassis Management Module	Redundant Chassis Management Modules, Open Industry Standard IPMI 2.0 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / HW Root of Trust / Chassis Management Module
LED Indicators	Fault LED, network activity LED, Power LED, UID	Fault LED, Network Activity LED, Power LED, UID	Fault LED, Network Activity LED, Power LED, UID
Form Factor	248 x 44.4 x 597mm (9.75" x 1.75" x 23.5")	248 x 44.4 x 597mm (9.75" x 1.75" x 23.5")	248 x 88.9 x 596.9mm (9.75" x 3.5" x 23.5")
Enclosure	SBE-610J/J2-422/622/822 SBE-610J2-430/630/830	SBE-610J/J2-422/622/822 SBE-610J2-430/630/830	SBE-610J/J2-422/622/822 SBE-610J2-430/630/830

X13 GRANDTWIN®

2U 4-Node Front I/O

2U 4-Node Front I/O

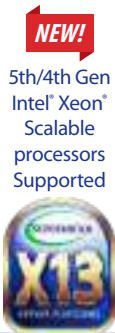


MODEL	SYS-211GT-HNTF	SYS-211GT-HNC8F
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> • HPC • Mission Critical Web Applications • EDA (Electric Design Automation) • Telco Edge Cloud • High-availability Cache Cluster • Multi-Purpose CDN • MEC (Multi-Access Edge Computing) • Cloud Gaming 	<ul style="list-style-type: none"> • HPC • Mission Critical Web Applications • EDA (Electric Design Automation) • Telco Edge Cloud • High-availability Cache Cluster • Multi-Purpose CDN • MEC (Multi-Access Edge Computing) • Cloud Gaming
Outstanding Features	<ul style="list-style-type: none"> • Single processor with 16 DIMM • Front I/O design • Four front access hot-swappable node in 2U • Flexible storage selection 	<ul style="list-style-type: none"> • Single processor with 16 DIMM • SAS controller built-in • Front I/O design • Four front access hot-swappable node in 2U • Flexible storage selection
Serverboard	SUPER● X13SET-G	SUPER● X13SET-GC
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-4800MT/s	16 DIMM slots; up to 4TB DDR5-4800MT/s
Expansion Slots	2 PCIe 5.0 x16 AIOM slots	2 PCIe 5.0 x16 AIOM slots
Onboard Storage Controller	Intel® SATA	Broadcom® Broadcom® 3808
Connectivity	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	SuperCloud Composer; SuperDoctor® 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish® API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)	SuperCloud Composer; SuperDoctor® 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish® API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)
Drive Bays	4 hot-swap 2.5" NVMe/SATA drive bays; 4x 2.5" NVMe dedicated; optional RAID support via Intel® PCH	4 hot-swap 2.5" NVMe/SATA/SAS drive bays; 4x 2.5" NVMe dedicated; optional RAID support via Broadcom® 3808 AOC
Peripheral Bays	None	None
Power Supply	Redundant 2200W Titanium level (96%)	Redundant 2200W Titanium level (96%)
Cooling System	2 heavy duty 8cm fans	2 heavy duty 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 GRANDTWIN®

2U 4-Node Rear I/O

2U 4-Node Rear I/O



MODEL	SYS-211GT-HNTR	SYS-211GT-HNC8R
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)†	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)†
Key Applications	<ul style="list-style-type: none"> • HPC • Mission Critical Web Applications • EDA (Electric Design Automation) • Telco Edge Cloud • High-availability Cache Cluster • Multi-Purpose CDN • MEC (Multi-Access Edge Computing) • Cloud Gaming 	<ul style="list-style-type: none"> • HPC • Mission Critical Web Applications • EDA (Electric Design Automation) • Telco Edge Cloud • High-availability Cache Cluster • Multi-Purpose CDN • MEC (Multi-Access Edge Computing) • Cloud Gaming
Outstanding Features	<ul style="list-style-type: none"> • Single processor with 16 DIMM • Four front access hot-swappable node in 2U • 6x NVMe/SATA drives per node 	<ul style="list-style-type: none"> • Single processor with 16 DIMM • SAS controller built-in • Four front access hot-swappable node in 2U • 6x NVMe/SAS/SATA drives per node
Serverboard	SUPER● X13SET-G	SUPER● X13SET-GC
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-4800MT/s	16 DIMM slots; up to 4TB DDR5-4800MT/s
Expansion Slots	2 PCIe 5.0 x16 AIOM slots	2 PCIe 5.0 x16 AIOM slots
Onboard Storage Controller	Intel® SATA	Broadcom® Broadcom® 3808
Connectivity	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	SuperCloud Composer; SuperDoctor® 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish® API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)	SuperCloud Composer; SuperDoctor® 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish® API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)
Drive Bays	6x 2.5" hot-swap NVMe/SATA drive bays; 6x 2.5" NVMe dedicated; Optional RAID support via Intel® PCH	6x 2.5" hot-swap NVMe/SATA/SAS drive bays; 6x 2.5" NVMe dedicated; Optional RAID support via Broadcom® 3808 AOC
Peripheral Bays	None	None
Power Supply	Redundant 2200W Titanium level (96%)	Redundant 2200W Titanium level (96%)
Cooling System	2 heavy duty 8cm fans	2 heavy duty 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 BIGTWIN®

2U2-Node

2U2-Node

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-621BT-DNTR	SYS-621BT-DNC8R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 300W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 300W TDP (air cooled) Up to 350W TDP (liquid cooled)
Key Applications	<ul style="list-style-type: none"> • Back-up & Recovery • Scale-Out Object Storage • Hyperconverged Infrastructure 	<ul style="list-style-type: none"> • Back-up & Recovery • Scale-Out Object Storage • Hyperconverged Infrastructure
Outstanding Features	<ul style="list-style-type: none"> • Tool-less support for swapping AOC cards • Supports Liquid Cooling up to 350W TDP • Supports 2x PCIe 5.0 NVMe and 4x PCIe 4.0 NVMe/SATA per node (Drive Bays) • Optional TPM 1.2 or 2.0 module • HW Boot Controller for NVMe M.2 drives 	<ul style="list-style-type: none"> • Tool-less support for swapping AOC cards • Supports Liquid Cooling up to 350W TDP • Supports 2x PCIe 5.0 NVMe and 4x PCIe 4.0 NVMe/SAS per node (Drive Bays) • Optional TPM 1.2 or 2.0 module • HW Boot Controller for NVMe M.2 drives
Serverboard	SUPER® X13DET-B	SUPER® X13DET-B
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCIe 5.0 x16 LP slot 2 PCIe x8 LP slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCIe 5.0 x16 LP slot 2 PCIe x8 LP slots
Onboard Storage Controller	Intel® SATA	Broadcom® 3808
Connectivity	via AIOM	via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog
Drive Bays	6 hot-swap 3.5" NVMe/SATA drive bays; RAID support via Intel® PCH	6 hot-swap 3.5" NVMe/SAS drive bays; HBA support via SAS3808 Adapter
Peripheral Bays	None	None
Power Supply	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)
Cooling System	4 heavy duty 14.9K RPM 8cm fans	4 heavy duty 14.9K RPM 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 BIGTWIN®

2U2-Node

2U2-Node

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-221BT-DNTR	SYS-221BT-DNC8R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 350W TDP (liquid cooled)
Key Applications	<ul style="list-style-type: none"> • Big Data Analytics and AI • Scale Out All-Flash NVMe Storage • Diskless HPC Clusters • High-Performance File System 	<ul style="list-style-type: none"> • All-Flash Object Storage • All-Flash Storage Area Network • All-Flash Hyperconverged Infrastructure
Outstanding Features	<ul style="list-style-type: none"> • Tool-less support for swapping AOC cards • Supports Liquid Cooling up to 350W TDP • Supports 2x PCIe 5.0 NVMe and 10x PCIe 4.0 NVMe/SATA per node (Drive Bays) • Optional TPM 1.2 or 2.0 module • HW Boot Controller for NVMe M.2 drives 	<ul style="list-style-type: none"> • Tool-less support for swapping AOC cards • Supports Liquid Cooling up to 350W TDP • Supports 2x PCIe 5.0 NVMe and 10x PCIe 4.0 NVMe/SAS per node (Drive Bays) • Optional TPM 1.2 or 2.0 module • HW Boot Controller for NVMe M.2 drives
Serverboard	SUPER® X13DET-B	SUPER® X13DET-B
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCIe 5.0 x16 LP slot 2 PCIe x8 LP slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCIe 5.0 x16 LP slot 2 PCIe x8 LP slots
Onboard Storage Controller	Intel® SATA	Broadcom® 3816
Connectivity	via AIOM	via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog
Drive Bays	12 hot-swap 2.5" NVMe/SATA drive bays; RAID support via Intel® PCH	12 hot-swap 2.5" NVMe/SAS drive bays; Optional HBA support via SAS3816 AOC
Peripheral Bays	None	None
Power Supply	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)
Cooling System	4 heavy duty 16.5K RPM 8cm fans	4 heavy duty 16.5K RPM 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 BIGTWIN®

2U 4-Node

2U 4-Node

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-621BT-HNTR	SYS-621BT-HNC8R
Processor Support	Dual Socket 5th/4th Gen Intel® Xeon® Scalable processors Up to 185W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual Socket 5th/4th Gen Intel® Xeon® Scalable processors Up to 185W TDP (air cooled) Up to 350W TDP (liquid cooled)
Key Applications	<ul style="list-style-type: none"> Scale-Out File Server Container Storage Hyperconverged Infrastructure 	<ul style="list-style-type: none"> Container Storage Scale-Out File Storage Hyperconverged Infrastructure
Outstanding Features	<ul style="list-style-type: none"> Tool-less support for swapping AOC cards Supports Liquid Cooling up to 350W TDP Supports 2x PCIe 5.0 NVMe and 1x PCIe 4.0 NVMe/SATA per node (Drive Bays) Optional TPM 1.2 or 2.0 module HW Boot Controller for NVMe M.2 drives 	<ul style="list-style-type: none"> Tool-less support for swapping AOC cards Supports Liquid Cooling up to 350W TDP Supports 2x PCIe 5.0 NVMe and 1x PCIe 4.0 NVMe/SAS per node (Drive Bays) Optional TPM 1.2 or 2.0 module HW Boot Controller for NVMe M.2 drives
Serverboard	SUPER® X13DET-B	SUPER® X13DET-B
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 M.2 (22x110mm) slots for boot drive or caching 2 PCIe 5.0 x16 LP slots	2 M.2 (22x110mm) slots for boot drive or caching 2 PCIe 5.0 x16 LP slots
Onboard Storage Controller	Intel® SATA	Broadcom® 3808
Connectivity	via AIOM	via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog
Drive Bays	3 hot-swap 3.5" NVMe/SATA drive bays; RAID support via Intel® PCH	3 hot-swap 3.5" NVMe/SAS drive bays; HBA support via SAS3808 Adapter
Peripheral Bays	None	None
Power Supply	1U 3000W Redundant Power Supply Titanium with C22 inlet, 45(W) X 40(H) X 480(L)	1U 3000W Redundant Power Supply Titanium with C22 inlet, 45(W) X 40(H) X 480(L)
Cooling System	4 heavy duty 14.9K RPM 8cm fans	4 heavy duty 14.9K RPM 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 BIGTWIN®

2U 4-Node

2U 4-Node

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported

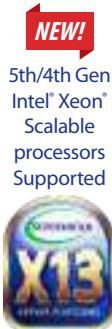


MODEL	SYS-221 BT-HNC8R	SYS-221 BT-HNC9R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 205W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 205W TDP (air cooled) Up to 350W TDP (liquid cooled)
Key Applications	<ul style="list-style-type: none"> All-Flash Hyperconverged Infrastructure Diskless HPC Clusters Container-as-a-Service; Application Accelerator 	<ul style="list-style-type: none"> High-Density Storage RAID Array Virtualized Big Data Analytics Mission Critical HPC
Outstanding Features	<ul style="list-style-type: none"> Tool-less support for swapping AOC cards Supports Liquid Cooling up to 350W TDP Supports 2x PCIe 5.0 NVMe and 4x PCIe 4.0 NVMe/SAS per node (Drive Bays) Optional TPM 1.2 or 2.0 module HW Boot Controller for NVMe M.2 drives 	<ul style="list-style-type: none"> Tool-less support for swapping AOC cards Supports Liquid Cooling up to 350W TDP Supports 2x PCIe 5.0 NVMe and 4x PCIe 4.0 NVMe/SAS per node (Drive Bays) Optional TPM 1.2 or 2.0 module HW Boot Controller for NVMe M.2 drives
Serverboard	SUPER® X13DET-B	SUPER® X13DET-B
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 M.2 (22x110mm) slots for boot drive or caching 2 PCIe 5.0 x16 LP slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCIe 5.0 x16 LP slot
Onboard Storage Controller	Broadcom® 3808	Broadcom® 3908
Connectivity	via AIOM	via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog
Drive Bays	6 hot-swap 2.5" NVMe/SAS drive bays; HBA support via SAS3808 Adapter	6 hot-swap 2.5" NVMe/SAS drive bays; Optional RAID support via Broadcom® 3908 AOC
Peripheral Bays	None	None
Power Supply	1U 3000W Redundant Power Supply Titanium with C22 inlet, 45(W) X 40(H) X 480(L)	1U 3000W Redundant Power Supply Titanium with C22 inlet, 45(W) X 40(H) X 480(L)
Cooling System	4x 16K RPM Counter Rotating 8cm Fan(s)	4x 16K RPM Counter Rotating 8cm Fan(s)
Form Factor	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 BIGTWIN®

2U 4-Node

2U 4-Node
(Coming Soon All NVMe Gen 5)



MODEL	SYS-221BT-HNTR	SYS-221BT-HNR
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 205W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 205W TDP (air cooled) Up to 350W TDP (liquid cooled)
Key Applications	<ul style="list-style-type: none"> • Diskless HPC Clusters • High-Performance File System • Container-as-a-Service; Application Accelerator • All-Flash NVMe Hyperconverged Infrastructure • Tool-less support for swapping AOC cards • Supports Liquid Cooling up to 350W TDP 	<ul style="list-style-type: none"> • Diskless HPC Clusters • High-Performance File System • Container-as-a-Service; Application Accelerator • All-Flash NVMe Hyperconverged Infrastructure • Tool-less support for swapping AOC cards • Supports Liquid Cooling up to 350W TDP
Outstanding Features	<ul style="list-style-type: none"> • Supports 2x PCIe 5.0 NVMe and 4x PCIe 4.0 NVMe/SATA per node (Drive Bays) • Optional TPM 1.2 or 2.0 module • HW Boot Controller for NVMe M.2 drives 	<ul style="list-style-type: none"> • Optional TPM 1.2 or 2.0 module • HW Boot Controller for NVMe M.2 drives • All NVMe PCIe 5.0 Flash
Serverboard	SUPERMICRO X13DET-B	SUPERMICRO X13DET-B
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	6 DIMM slots; up to 4TB DDR5-5600MT/s	6 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 M.2 (22x110mm) slots for boot drive or caching 2 PCIe 5.0 x16 LP slots	2 M.2 (22x110mm) slots for boot drive or caching 2 PCIe 5.0 x16 LP slots
Onboard Storage Controller	Intel® SATA	
Connectivity	via AIOM	via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog
Drive Bays	6 hot-swap 2.5" NVMe/SATA drive bays; RAID support via Intel® PCH	6 hot-swap 2.5" NVMe Gen5 drive bays
Peripheral Bays	None	None
Power Supply	1U 3000W Redundant Power Supply Titanium with C22 inlet, 45(W) X 40(H) X 480(L)	1U 3000W Redundant Power Supply Titanium with C22 inlet, 45(W) X 40(H) X 480(L)
Cooling System	4 16K RPM 8cm counter-rotating fans	4 16K RPM 8cm counter-rotating fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 FATTWIN®

4U8N

4U4N



NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-F511E2-RT	SYS-F521E3-RTB
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)†	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)†
Key Applications	<ul style="list-style-type: none"> • Hyperscale / Hyperconverged • Telco Data Center and ETSI certified • Data Center Enterprise Applications • HPC and Big Data 	<ul style="list-style-type: none"> • Hyperscale / Hyperconverged • Telco Data Center and ETSI certified • Data Center Enterprise Applications • HPC and Big Data
Outstanding Features	<ul style="list-style-type: none"> • Shared power architecture for best efficiency • Redundant cooling and power configurations for high availability • Optimized designs for storage and compute density • HDD hot-swap capability • 16 DIMMs Up to 4TB DDR5 	<ul style="list-style-type: none"> • Shared power architecture for best efficiency • Redundant cooling and power configurations for high availability • Optimized designs for storage and compute density • HDD hot-swap capability • 16 DIMMs Up to 4TB DDR5
Serverboard	SUPERMICRO X13SEFR-A	SUPERMICRO X13SEFR-A
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 AIOM slots 1 PCIe 5.0 x16 LP slot 2 M.2 slots	2 AIOM slots 1 PCIe 5.0 x16 LP slot 2 M.2 slots
Onboard Storage Controller	Intel® SATA	Intel® SATA
Connectivity	1 1GbE RJ45 (BMC) port via AIOM	1 1GbE RJ45 (BMC) port via AIOM
VGA/Audio	1 VGA port, Aspeed AST2600 BMC	1 VGA port, Aspeed AST2600 BMC
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	6 hot-swap 2.5" NVMe/SATA/SAS drive bays; 8x 2.5" NVMe hybrid; 8x 2.5" 7mm drive bays	8 hot-swap 3.5" NVMe/SATA/SAS drive bays; 8x 2.5" NVMe hybrid; 8x 2.5" 7mm drive bays
Peripheral Bays	None	None
Power Supply	Redundant 2000W Titanium level (96%)	Redundant 2000W Titanium level (96%)
Cooling System	4 heavy duty 4cm fans	4 heavy duty 4cm fans
Form Factor	4U Rackmount Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: (28.3" x 15" x 42.4")	4U Rackmount Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: (28.3" x 15" x 42")

X13 CLOUDDC

High Density Cloud Storage

High Density Cloud Storage

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-621C-TN12R	SYS-521C-NR
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> • CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application 	<ul style="list-style-type: none"> • Database/Storage • AI Inference, ML training • Network Appliance • Data Center Optimized • Cloud Computing
Outstanding Features	<ul style="list-style-type: none"> • 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 sockets up to 350W TDP • Dual NVMe M.2 (2280) • Dual FHFLDW PCIe 4.0 GPU support • Dual AIOM with NCSI (OCP 3.0 NIC) • 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 	<ul style="list-style-type: none"> • Support powerful double-width GPUs • Flexible Configurations. Support 6 PCIe 5.0 expansion slots + 2x AIOM slots in 2U
Serverboard	SUPER® X13DDW-A	SUPER® X13SEDW-F
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	Slot 1: PCIe 4.0 x8 FHHL (optional x16 by merging slot 2) Slot 2: PCIe 4.0 x8 FHHL Slot 3: PCIe 4.0 x16 FHHL Slot 4: PCIe 4.0 x8 FHHL Slot 5: PCIe 4.0 x8 FHHL (optional x16 by merging slot 4) Slot 6: PCIe 4.0 x16 FHHL Slot A1: PCIe 4.0 x16 OCP 3.0 Mezzanine NIC Slot A2: PCIe 4.0 x16 OCP 3.0 Mezzanine NIC	Slot 1: PCIe 5.0 x8 FHFL (optional x16 by merging slot 2) Slot 2: PCIe 5.0 x8 FHFL Slot 3: PCIe 5.0 x16 FHHL Slot 4: PCIe 5.0 x8 FHFL Slot 5: PCIe 5.0 x8 FHFL (optional x16 by merging slot 4) Slot 6: PCIe 5.0 x16 FHHL Slot A1: PCIe 5.0 x16 OCP 3.0 AIOM NIC Slot A2: dummy AIOM slot
Onboard Storage Controller	Intel® SATA	Intel® SATA
Connectivity	with Via Advanced IO Module, AIOM (OCP 3.0 NIC, refer to AIOM Network Card(s) under Optional Parts List for NIC options) via AIOM	via AIOM
VGA/Audio	1 VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SCC; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM
Drive Bays	12 hot-swap 3.5" NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC	12 hot-swap 3.5" SATA/SAS drive bays; 2x 3.5" NVMe hybrid
Peripheral Bays	None	None
Power Supply	Redundant 1200W Titanium level (96%)	Redundant 1200W Titanium level (96%)
Cooling System	3 heavy duty 8cm fans	3 (8cm x 8cm x 3.8cm) heavy duty fan(s)
Form Factor	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")	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")

X13 CLOUDDC

Compact Cloud Compute

Compact Cloud Compute

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-121C-TN10R	SYS-111C-NR
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 270W TDP (air cooled)	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> • CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application 	<ul style="list-style-type: none"> • HPC • Virtualization • Storage Headnode • Data Center Optimized • Cloud Computing • CDN, Edge Nodes
Outstanding Features	<ul style="list-style-type: none"> • Up to 10x NVMe/SATA/SAS hybrid tool-less drive bays • Dual sockets up to 270W TDP • Dual NVMe M.2 (2280) • Dual AIOM with NCSI (OCP 3.0 NIC) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (23.5") 	<ul style="list-style-type: none"> • Max 10x PCIe 5.0 NVMe drives supported in 1U Form Factor • Flexible Configurations. Support 2x 16 PCIe 5.0 expansion slots + 2x AIOM slots in 1U
Serverboard	SUPER® X13DDW-A	SUPER® X13SEDW-F
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 PCIe 5.0 x16 FHHL slots	Slot 1: PCIe 5.0 x16 FHHL Slot 2: PCIe 5.0 x16 FHHL Slot A1: PCIe 5.0 x16 OCP 3.0 AIOM NIC Slot A2: PCIe 5.0 x16 OCP 3.0 AIOM NIC
Onboard Storage Controller	Intel® SATA	Intel® SATA
Connectivity	with Via Advanced IO Module, AIOM (OCP 3.0 NIC, refer to AIOM Network Card(s) under Optional Parts List for NIC options) via AIOM	via AIOM
VGA/Audio	1 VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SCC; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM
Drive Bays	10 hot-swap 2.5" NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC	10 hot-swap 2.5" NVMe/SATA/SAS drive bays
Peripheral Bays	None	None
Power Supply	Redundant 860W Platinum level (94%)	Redundant 860W Platinum level (94%)
Cooling System	6 heavy duty 4cm fans	6 (4cm x 4cm x 5.6cm) heavy duty fans
Form Factor	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")	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 602 x 195.6 x 807.7mm (23.7" x 7.7" x 31.8")

X13 CLOUDDC

General Purpose Balanced

Compact Storage Optimized

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-121C-TN2R	SYS-611C-TN4R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 270W TDP (air cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 270W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> • CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application 	<ul style="list-style-type: none"> • CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application
Outstanding Features	<ul style="list-style-type: none"> • Up to 8x SATA/SAS w/ 2x NVMe tool-less drive bays • Optional DVD ROM support • Dual sockets up to 270W TDP • Dual NVMe M.2 (2280) • Dual AIOM with NCSI (OCP 3.0 NIC) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (23.5") 	<ul style="list-style-type: none"> • Up to 4x SATA/SAS/NVMe tool-less drive bays • Optional fixed 2.5" 7 mm drive bays • Dual sockets up to 270W TDP • Dual NVMe M.2 (2280) • Dual AIOM with NCSI (OCP 3.0 NIC) • 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
Serverboard	SUPER [®] X13DDW-A	SUPER [®] X13DDW-A
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 PCIe 5.0 x16 FHHL slot(s)	2 PCIe 5.0 x16 FHHL slot(s)
Onboard Storage Controller	Intel® SATA	
Connectivity	with Via Advanced IO Module, AIOM (OCP 3.0 NIC, refer to AIOM Network Card(s) under Optional Parts List for NIC options) via AIOM	with Via Advanced IO Module, AIOM (OCP 3.0 NIC, refer to AIOM Network Card(s) under Optional Parts List for NIC options) via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SCC; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SCC; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	8 hot-swap 2.5" NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC	4 hot-swap 3.5" NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC
Peripheral Bays	1x DVD-ROM (optional)	2 fixed 2.5" 7mm peripheral bays (optional)
Power Supply	Redundant 860W Platinum level (94%)	Redundant 860W Platinum level (94%)
Cooling System	6 heavy duty 4cm fans	6 heavy duty 4cm fans
Form Factor	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")	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")

X13 ALL-FLASH EDSFF

1U High-performance All-Flash

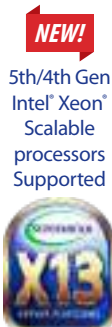
NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SSG-121E-NES24R	SSG-121E-NE316R	SSG-221E-NE324R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors; Up to 270W TDP (air cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors; Up to 270W TDP (air cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> In-Memory Computing Software-defined Storage NVMe Over Fabrics Solution Private & Hybrid Cloud Data Intensive HPC 	<ul style="list-style-type: none"> In-Memory Computing Software-defined Storage NVMe Over Fabrics Solution Private & Hybrid Cloud Data Intensive HPC 	<ul style="list-style-type: none"> In-Memory Computing Software-defined Storage NVMe Over Fabrics Solution Private & Hybrid Cloud Data Intensive HPC
Outstanding Features	<ul style="list-style-type: none"> Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant) Supports 32 DIMMs with 2DPC, up to 12TB memory capacity with 16 DIMMs of 256Gb 3DS RDIMM/RDIMM DDR5 ECC memory and 16 DIMMs of 512Gb Redundant Titanium 2000W Power Supplies Dual Socket E (LGA-4677) 5th/4th Generation Intel® Xeon® Scalable processors. Up to 270W TDP. Composable Infrastructure Platform 24x hot-swap E1.5 (9.5mm or 15mm) NVMe drive bays 	<ul style="list-style-type: none"> Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant) Supports 32 DIMMs with 2DPC, up to 8TB memory capacity with 32 DIMMs of 256GB 3DS RDIMM/RDIMM DDR5 ECC memory Dual Socket E (LGA-4677) 5th/4th Generation Intel® Xeon® Scalable processors. Up to 270W TDP. Composable Infrastructure Platform 	<ul style="list-style-type: none"> Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant) Supports 32 DIMMs with 2DPC, up to 8TB memory capacity with 32 DIMMs of 256GB 3DS RDIMM/RDIMM DDR5 ECC memory Redundant Titanium 2000W Power Supplies Dual Socket E (LGA-4677) 5th/4th Generation Intel® Xeon® Scalable processors. Up to 350W TDP. Composable Infrastructure Platform
Serverboard	SUPER® X13DSF-A	SUPER® X13DSF-A	SUPER® X13DSF-A
Chipset	Intel® C741	Intel® C741	Intel® C741
System Memory (Max.)	32 DIMM slots; Up to 8TB DDR5-4800MT/s	32 DIMM slots; Up to 8TB DDR5-4800MT/s	32 DIMM slots; Up to 8TB DDR5-4800MT/s
Expansion Slots	2 PCIe 5.0 x16 FHHL slots or 4 PCIe 5.0 x8 FHHL slots; 2 PCIe 5.0 x 16 AIOM slots	2 PCIe 5.0 x16 AIOM slots 2 PCIe 5.0 x16 FH slots	1 PCIe 5.0 x16 AIOM slots 1 PCIe 5.0 x16 FH slots 1 PCIe 5.0 x8 AIOM slots 1 PCIe 5.0 x8 FH slots
Onboard Storage Controller	Intel® SATA	Intel® SATA	Intel® SATA
Connectivity	via AIOM	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port	None
Management	IPMI 2.0; NMI; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)
Drive Bays	24 hot-swap E1.5 NVMe drive slots	16 hot-swap E3.5 NVMe drive slots	24 hot-swap E3.5 NVMe (9.5mm or 15mm) drive slots
Peripheral Bays	None	None	None
Power Supply	2000W Redundant Power Supplies with PMBus	1600W Redundant Power Supplies with PMBus	Redundant 750W Platinum level (94%)
Cooling System	8 heavy duty 8cm fans	8 heavy duty 4cm fans	8 heavy duty 4cm fans
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")	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") Package: 673.1 x 254 x 1098.55mm (26.5" x 10" x 43.25")

X13 ENTERPRISE STORAGE



2U 12-bay Front Loading

2U 12-bay Front Loading

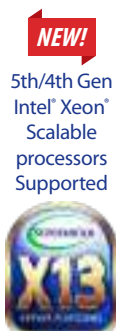
2U 16-Bay Front Loading/Internal

2U 16-Bay Front Loading/Internal



MODEL	SSG-621E-ACR12H	SSG-621E-ACR12L	SSG-621E-ACR16H	SSG-621E-ACR16L
Processor Support	5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported TDP up to 270W	5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported TDP up to 270W	5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported TDP up to 270W	5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported TDP up to 270W
Key Applications	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server 	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server 	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server 	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server
Outstanding Features	<ul style="list-style-type: none"> Up to 4TB DDR5-5600MHZ/4800MHZ ECC Registered RDIMM in 16 DIMM slots(1DPC) Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 12x Hot-swap 3.5" SAS3/SATA3 drive bays 	<ul style="list-style-type: none"> Up to 4TB DDR5-5600MHZ/4800MHZ ECC Registered RDIMM in 16 DIMM slots(1DPC) Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 12x Hot-swap 3.5" SAS3/SATA3 drive bays 	<ul style="list-style-type: none"> Up to 4TB DDR5-5600MHZ/4800MHZ ECC Registered RDIMM in 16 DIMM slots(1DPC) Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 12x Hot-swap 3.5" SAS3/SATA3 drive bays 	<ul style="list-style-type: none"> Up to 4TB DDR5-5600MHZ/4800MHZ ECC Registered RDIMM in 16 DIMM slots(1DPC) Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 12x Hot-swap 3.5" SAS3/SATA3 drive bays
Serverboard	SUPER [®] X13DEI-T	SUPER [®] X13DEI-T	SUPER [®] X13DEI-T	SUPER [®] X13DEI-T
Chipset	Intel® C741	Intel® C741	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Expansion Slots	2 PCIe 5.0 x8 LP slot(s) 4 PCIe 5.0 x16 LP slot(s)	2 PCIe 5.0 x8 LP slot(s) 4 PCIe 5.0 x16 LP slot(s)	2 PCIe 5.0 x8 LP slot(s) 4 PCIe 5.0 x16 LP slot(s)	2 PCIe 5.0 x8 LP slot(s) 4 PCIe 5.0 x16 LP slot(s)
Onboard Storage Controller				
Connectivity	2x 10GbE RJ45 port(s) with Broadcom BCM57416	2x 10GbE RJ45 port(s) with Broadcom BCM57416	2x 10GbE RJ45 port(s) with Broadcom BCM57416	2x 10GbE RJ45 port(s) with Broadcom BCM57416
VGA/Audio	1 VGA port	1 VGA port	1 VGA port	1 VGA port
Management	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)
Drive Bays	12x 3.5" hot-swap SATA3/SAS3 drive bays; 6x 2.5" NVMe hybrid;	12x 3.5" hot-swap SATA3/SAS3 drive bays; 6x 2.5" NVMe hybrid;	16x 3.5" hot-swap SATA3/SAS3 drive bays; 6x 2.5" NVMe hybrid;	16x 3.5" hot-swap SATA3/SAS3 drive bays; 6x 2.5" NVMe hybrid;
Peripheral Bays	None	None	None	None
Power Supply	1200W Redundant Titanium Level power supplies	1200W Redundant Titanium Level power supplies	1600W Redundant Titanium Level power supplies	1600W Redundant Titanium Level power supplies
Cooling System	3x 8cm heavy duty fan(s)	3x 8cm heavy duty fan(s)	4x 8cm heavy duty fan(s)	4x 8cm heavy duty fan(s)
Form Factor	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")	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")	2U Rackmount Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.75") Package: 658 x 274 x 998mm (25.9" x 10.8" x 39.3")	2U Rackmount Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.75") Package: 658 x 274 x 998mm (25.9" x 10.8" x 39.3")

X13 ENTERPRISE STORAGE



3U 16-Bay Front Loading

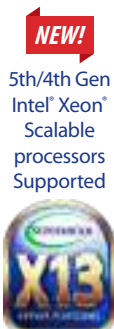


3U 16-Bay Front Loading



MODEL	SSG-631E-E1CR16H	SSG-631E-E1CR16L
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 270W TDP (air cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 270W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server 	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server
Outstanding Features	<ul style="list-style-type: none"> Up to 4TB 3DS ECC RDIMM, DDR5-4800MT/s(1DPC) in 16 DIMM slots Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual socket 4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 16x Hot-swap 3.5" SAS3/SATA3 drive bays 	<ul style="list-style-type: none"> Up to 4TB 3DS ECC RDIMM, DDR5-4800MT/s(1DPC) in 16 DIMM slots Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual socket 4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 16x Hot-swap 3.5" SAS3/SATA3 drive bays
Serverboard	SUPER● X13DEI-T	SUPER● X13DEI-T
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 PCIe 5.0 x8 FH slots 4 PCIe 5.0 x16 FH slots	2 PCIe 5.0 x8 FH slots 4 PCIe 5.0 x16 FH slots
Onboard Storage Controller	Intel® SATA Broadcom® AOC-S3908L-H8IR	Broadcom® 3808
Connectivity	2x 10GbE RJ45 port(s) with Broadcom BCM57416	2x 10GbE RJ45 port(s) with Broadcom BCM57416
VGA/Audio	1 VGA port	1 VGA port
Management	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)
Drive Bays	16 front hot-swap 3.5" SATA/SAS drive bays 2 hot-swap 2.5" SATA rear drive bays	16 front hot-swap 3.5" SATA/SAS drive bays 2 hot-swap 2.5" SATA rear drive bays
Peripheral Bays	None	None
Power Supply	1200W Redundant Power Supplies with PMBus	1200W Redundant Power Supplies with PMBus
Cooling System	5 heavy duty 8cm fans	5 heavy duty 8cm fans
Form Factor	3U Rackmount Enclosure: (17.2" x 5.2" x 25.5") Package: (27" x 13" x 35")	3U Rackmount Enclosure: (17.2" x 5.2" x 25.5") Package: (27" x 13" x 35")

X13 ENTERPRISE STORAGE



4U 24-Bay Front Loading



4U 24-Bay Front Loading



4U 36-Bay Double-Sided*



4U 36-Bay Double-Sided*



MODEL	SSG-641E-E1CR24H	SSG-641E-E1CR24L	SSG-641E-E1CR36H	SSG-641E-E1CR36L
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 270W TDP (air cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 270W TDP (air cooled)	4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported TDP up to 270W	4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported TDP up to 270W
Key Applications	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server 	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server 	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server 	<ul style="list-style-type: none"> Appliance Optimized Storage Building Blocks Corporate Database Database Processing & Storage HPC, Data Center iSCSI SAN Enterprise Server
Outstanding Features	<ul style="list-style-type: none"> Up to 4TB 3DS ECC RDIMM, DDR5-4800MT/s(1DPC) in 16 DIMM slots Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual socket 4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 24x Hot-swap 3.5" SAS3/SATA3 drive bays 	<ul style="list-style-type: none"> Up to 4TB 3DS ECC RDIMM, DDR5-4800MT/s(1DPC) in 16 DIMM slots Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual socket 4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 2x onboard M.2 NVMe 24x Hot-swap 3.5" SAS3/SATA3 drive bays 	<ul style="list-style-type: none"> Up to 4TB 3DS ECC RDIMM, DDR5-4800MT/s(1DPC) in 16 DIMM slots Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual socket 4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 36x Hot-swap 3.5" SAS3/SATA3 drive bays 2x onboard M.2 NVMe 	<ul style="list-style-type: none"> Up to 4TB 3DS ECC RDIMM, DDR5-4800MT/s(1DPC) in 16 DIMM slots Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Dual socket 4th Gen Intel® Xeon® Scalable processors 4 PCIe 5.0 X16 Slots + 2 PCIe 5.0 x8 Slots 36x Hot-swap 3.5" SAS3/SATA3 drive bays 2x onboard M.2 NVMe
Serverboard	SUPER® X13DEI-T	SUPER® X13DEI-T	SUPER® X13DEI-T	SUPER® X13DEI-T
Chipset	Intel® C741	Intel® C741	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 PCIe 5.0 x8 FH slots 4 PCIe 5.0 x16 FH slots	2 PCIe 5.0 x8 FH slots 4 PCIe 5.0 x16 FH slots	2 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots	2 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots
Onboard Storage Controller	Broadcom® 3908	Broadcom® 3808	Broadcom® 3908	Broadcom® 3808
Connectivity	2x 10GbE RJ45 port(s) with Broadcom BCM57416	2x 10GbE RJ45 port(s) with Broadcom BCM57416	2x 10GbE RJ45 port(s) with Broadcom BCM57416	2x 10GbE RJ45 port(s) with Broadcom BCM57416
VGA/Audio	1 VGA port	1 VGA port	1 VGA port	1 VGA port
Management	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)
Drive Bays	24 front hot-swap 3.5" SATA/SAS drive bays (6 hot swap 2.5" NVMe hybrid) 2 hot-swap 2.5" SATA rear drive bays	24 front hot-swap 3.5" SATA/SAS drive bays (6 hot swap 2.5" NVMe hybrid) 2 hot-swap 2.5" SATA rear drive bays	24 front + 12 rear hot-swap 3.5" SATA/SAS drive bays (6 hot swap 2.5" NVMe hybrid)	24 front + 12 rear hot-swap 3.5" SATA/SAS drive bays (6 hot swap 2.5" NVMe hybrid)
Peripheral Bays	None	None	None	None
Power Supply	1200W Redundant Power Supplies with PMBus	1200W Redundant Power Supplies with PMBus	1600W Redundant Power Supplies with PMBus	1600W Redundant Power Supplies with PMBus
Cooling System	5 heavy duty 8cm fans	5 heavy duty 8cm fans	7 heavy duty 8cm fans	7 heavy duty 8cm fans
Form Factor	4U Rackmount Enclosure: (17.2" x 7" x 26") Package: (27" x 15" x 39")	4U Rackmount Enclosure: (17.2" x 7" x 26") Package: (27" x 15" x 39")	4U Rackmount Enclosure: (17.2" x 7" x 27.5") Package: (27" x 15" x 39")	4U Rackmount Enclosure: (17.2" x 7" x 27.5") Package: (27" x 15" x 39")

X13 SIMPLY DOUBLE

2U 24-Bay Simply Double
Up to 24 hot-swap SAS/SATA

2U 24-Bay Simply Double
Up to 24 hot-swap SAS/SATA

NEW!

5th/4th Gen
Intel® Xeon®
Scalable
processors
Supported



MODEL	SSG-521E-E1CR24H	SSG-521E-E1CR24L
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> • Appliance Optimized Storage Building Blocks • Corporate Database • Database Processing & Storage • HPC, Data Center • iSCSI SAN • Enterprise Server 	<ul style="list-style-type: none"> • Appliance Optimized Storage Building Blocks • Corporate Database • Database Processing & Storage • HPC, Data Center • iSCSI SAN • Enterprise Server
Outstanding Features	•	•
Serverboard	SUPER® X13SEDW-F	SUPER® X13SEDW-F
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 PCIe 5.0 x16 AIOM slot(s) 2 PCIe 5.0 x16 FH slot(s) 4 PCIe 5.0 x8 FH slot(s)	2 PCIe 5.0 x16 AIOM slot(s) 2 PCIe 5.0 x16 FH slot(s) 4 PCIe 5.0 x8 FH slot(s)
Onboard Storage Controller	Broadcom® 3908	Broadcom® 3808
Connectivity	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)
Drive Bays	24 hot-swap 3.5" SATA/SAS drive bays	24 hot-swap 3.5" SATA/SAS drive bays
Peripheral Bays	None	None
Power Supply	Redundant 1600W Titanium level (96%)	Redundant 1600W Titanium level (96%)
Cooling System	4 heavy duty 8cm fans	4 heavy duty 8cm fans
Form Factor	2U Rackmount Enclosure: (17.2" x 3.5" x 34") Package: (29" x 12" x 52")	2U Rackmount Enclosure: (17.2" x 3.5" x 34") Package: (29" x 12" x 52")

X13 HYPER-E

2U Hyper-E
Optimized for 5G and Telco



2U Hyper-E
Optimized for 5G and Telco



NEW!

5th/4th Gen
Intel® Xeon®
Scalable
processors
Supported

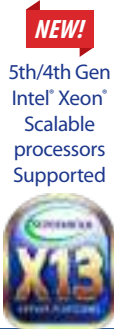


MODEL	SYS-221HE-FTNR	SYS-221HE-FTNRD
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> • Cloud Computing • Network Function Virtualization • AI Inference and Machine Learning • Telecom Micro Data Center • 5G Core and Edge 	<ul style="list-style-type: none"> • Cloud Computing • Network Function Virtualization • AI Inference and Machine Learning • Telecom Micro Data Center • 5G Core and Edge
Outstanding Features	<ul style="list-style-type: none"> • Tool-less system design for east maintenance • Storage configurations up to 6x 2.5" hot-swap NVMe/SATA drive bays • Flexible networking options with 2 AIOM networking slots (OCP NIC 3.0 compatible) 	<ul style="list-style-type: none"> • Tool-less system design for east maintenance • Storage configurations up to 6x 2.5" hot-swap NVMe/SATA drive bays • Flexible networking options with 2 AIOM networking slots (OCP NIC 3.0 compatible)
Serverboard	SUPER® X13DEM	SUPER® X13DEM
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	32 DIMM slots; up to 8TB DDR5-5600MT/s	32 DIMM slots; up to 8TB DDR5-5600MT/s
Expansion Slots	Configurable PCIe slot options up to 8 SW PCIe 5.0 x8 (6 FHFL+ 2 FHHL) or 4 DW PCIe 5.0 x16 (3 FHFL + FHHL)	Configurable PCIe slot options up to 8 SW PCIe 5.0 x8 (6 FHFL+ 2 FHHL) or 4 DW PCIe 5.0 x16 (3 FHFL + FHHL)
Onboard Storage Controller	Intel® SATA	Intel® SATA
Connectivity	2x 100GbE QSFP28 with Broadcom® BCM57508 (optional) 2x 100GbE QSFP28 with Intel® E810-CAM2 (optional) 2x 100GbE QSFP28 with Mellanox® CX-6 DX (optional) 2x 25GbE SFP28 with Broadcom® BCM57414 (optional) 4x 10GbE RJ45 with Intel® X550 (optional) 4x 10GbE SFP+ with Intel® X710-BM2 (optional) via AIOM	2x 100GbE QSFP28 with Broadcom® BCM57508 (optional) 2x 100GbE QSFP28 with Intel® E810-CAM2 (optional) 2x 100GbE QSFP28 with Mellanox® CX-6 DX (optional) 2x 25GbE SFP28 with Broadcom® BCM57414 (optional) 4x 10GbE RJ45 with Intel® X550 (optional) 4x 10GbE SFP+ with Intel® X710-BM2 (optional) via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	6 hot-swap 2.5" NVMe/SAS/SATA drive bays; 6x 2.5" NVMe hybrid; Optional RAID support via RAID Controller AOC	6 hot-swap 2.5" NVMe/SAS/SATA drive bays; 6x 2.5" NVMe hybrid; Optional RAID support via RAID Controller AOC
Peripheral Bays	None	None
Power Supply	Redundant 2000W Titanium level (96%)	2x 1300W -48Vdc single output
Cooling System	6 heavy duty fans	6 heavy duty fans
Form Factor	2U Rackmount Enclosure: 436.88 x 88.9 x 574mm (17.2" x 3.5" x 22.6") Package: 598 x 247 x 938mm (23.5" x 9.7" x 36.9")	2U Rackmount Enclosure: 436.88 x 88.9 x 574mm (17.2" x 3.5" x 22.6") Package: 598 x 247 x 938mm (23.5" x 9.7" x 36.9")

X13 HYPER

2U Hyper
Optimized for Storage Performance
(Liquid Cooling options)

2U Hyper
Optimized for Storage Performance

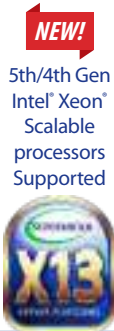


MODEL	SYS-221H-TNR	SYS-221H-TN24R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 385W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 385W TDP (liquid cooled)
Key Applications	<ul style="list-style-type: none"> • Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning • Tool-less system design for easy maintenance 	<ul style="list-style-type: none"> • Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning
Outstanding Features	<ul style="list-style-type: none"> • Storage configurations up to 16x 2.5" hot-swap NVMe/SATA/SAS drive bays • Flexible networking options with AIOM/OCN NIC 3.0 support 	<ul style="list-style-type: none"> • Tool-less system design for easy maintenance • Flexible networking options with AIOM/OCN NIC 3.0 support • 24x 2.5" hot-swap NVMe/SATA/SAS drive bays
Serverboard	SUPER● X13DEM	SUPER● X13DEM
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	32 DIMM slots; Up to 8TB DDR5-5600MT/s	32 DIMM slots; Up to 8TB DDR5-5600MT/s
Expansion Slots	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	Intel® SATA	Intel® SATA
Connectivity	2x 100GbE QSFP28 with Broadcom® BCM57508 (optional) 2x 10GbE RJ45 with Intel® X550-AT2 (optional) 2x 10GbE SFP+ with Intel® X710-BM2 (optional) 2x 1GbE RJ45 with Intel® i350-AM2 (optional) 2x 25GbE SFP28 with Broadcom® BCM57414 (optional) 4x 10GbE RJ45/SFP+ with Intel® X710-TM4 (optional) 4x 10GbE SFP+ with Intel® XL710-BM1 (optional) 4x 1GbE RJ45 or 4x 1GbE SFP with Intel® i350-AM4 (optional) 4x 25GbE RJ45/SFP28 with Mellanox® CX-4 Lx EN Intel® X550-AT2 (optional) via AIOM	2x 100GbE QSFP28 with Broadcom® BCM57508 (optional) 2x 10GbE RJ45 with Intel® X550-AT2 (optional) 2x 10GbE SFP+ with Intel® X710-BM2 (optional) 2x 1GbE RJ45 with Intel® i350-AM2 (optional) 2x 25GbE SFP28 with Broadcom® BCM57414 (optional) 4x 10GbE RJ45/SFP+ with Intel® X710-TM4 (optional) 4x 10GbE SFP+ with Intel® XL710-BM1 (optional) 4x 1GbE RJ45 or 4x 1GbE SFP with Intel® i350-AM4 (optional) 4x 25GbE RJ45/SFP28 with Mellanox® CX-4 Lx EN Intel® X550-AT2 (optional) via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	8 hot-swap 2.5" NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC	24 hot-swap 2.5" NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC
Peripheral Bays	None	None
Power Supply	Redundant 1200W Titanium level (96%)	Redundant 1600W Titanium level (96%)
Cooling System	4 heavy duty 8cm fans	4 heavy duty 8cm fans
Form Factor	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")	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")

X13 HYPER

2U Hyper
Optimized for Storage Capacity

1U Hyper
Compute & Storage Powerhouse
Liquid Cooling Options



MODEL	SYS-621H-TN12R	SYS-121H-TNR
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 385W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 385W TDP (liquid cooled)
Key Applications	<ul style="list-style-type: none"> • Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning 	<ul style="list-style-type: none"> • Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning
Outstanding Features	<ul style="list-style-type: none"> • Tool-less system design for easy maintenance • Flexible networking options with AIOM/OCP NIC 3.0 support • 12x 3.5"/2.5" hot-swap NVMe/SATA/SAS drive bays 	<ul style="list-style-type: none"> • Tool-less system design for easy maintenance • Storage configurations up to 12x 2.5" hot-swap NVMe/SATA/SAS drive bays • Flexible networking options with AIOM/OCP NIC 3.0 support
Serverboard	SUPER● X13DEM	SUPER● X13DEM
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	32 DIMM slots; Up to 8TB DDR5-5600MT/s	32 DIMM slots; Up to 8TB DDR5-5600MT/s
Expansion Slots	Configurable PCIe slot options up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 FH, 10.5"L	2 PCIe 5.0 x16 FH, 10.5"L and 1 PCIe 5.0 x16, FH, 6.6"L
Onboard Storage Controller	Intel® SATA	Intel® SATA
Connectivity	2x 100GbE QSFP28 with Broadcom® BCM57508 (optional) 2x 10GbE RJ45 with Intel® X550-AT2 (optional) 2x 10GbE SFP+ with Intel® X710-BM2 (optional) 2x 1GbE RJ45 with Intel® i350-AM2 (optional) 2x 25GbE SFP28 with Broadcom® BCM57414 (optional) 4x 10GbE RJ45/SFP+ with Intel® X710-TM4 (optional) 4x 10GbE SFP+ with Intel® XL710-BM1 (optional) 4x 1GbE RJ45 or 4x 1GbE SFP with Intel® i350-AM4 (optional) 4x 25GbE RJ45/SFP28 with Mellanox® CX-4 Lx EN Intel® X550-AT2 (optional) via AIOM	2x 100GbE QSFP28 with Broadcom® BCM57508 (optional) 2x 10GbE RJ45 with Intel® X550-AT2 (optional) 2x 10GbE SFP+ with Intel® X710-BM2 (optional) 2x 1GbE RJ45 with Intel® i350-AM2 (optional) 2x 25GbE SFP28 with Broadcom® BCM57414 (optional) 4x 10GbE RJ45/SFP+ with Intel® X710-TM4 (optional) 4x 10GbE SFP+ with Intel® XL710-BM1 (optional) 4x 1GbE RJ45 or 4x 1GbE SFP with Intel® i350-AM4 (optional) 4x 25GbE RJ45/SFP28 with Mellanox® CX-4 Lx EN Intel® X550-AT2 (optional) via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	12 hot-swap 3.5" NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC	8 hot-swap 2.5" NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC
Peripheral Bays	None	None
Power Supply	Redundant 1200W Titanium level (96%)	Redundant 1200W Titanium level (96%)
Cooling System	4 heavy duty 8cm fans	8 heavy duty 4cm fans
Form Factor	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")	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")

X13 UP WIO

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



1U UP WIO

1U UP WIO

2U UP WIO



MODEL	SYS-511E-WR	SYS-111E-WR	SYS-521E-WR
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)
Key Applications	<ul style="list-style-type: none"> Virtualization Value IaaS Entry GPU server Data Center Optimized Cloud Computing 	<ul style="list-style-type: none"> Virtualization Entry GPU server Database/Storage Data Center Optimized Cloud Computing 	<ul style="list-style-type: none"> Entry GPU server Database/Storage Network Appliance Data Center Optimized
Outstanding Features	<ul style="list-style-type: none"> Maximum I/O. Support 3 x16 expansion slots in 1U form factor. Cost optimized 1U X13 solution 	<ul style="list-style-type: none"> Maximum I/O. Support 3 x16 expansion slots in 1U form factor Max 10x PCIe 5.0 NVMe drives supported in 1U Form Factor 	<ul style="list-style-type: none"> Up to 4 expansion slots with optional riser card Max 4x hybrid PCIe 5.0 NVMe drives supported at front Flexible I/O expansion
Serverboard	SUPER® X13SEW-F	SUPER® X13SEW-F	SUPER® X13SEW-F
Chipset	Intel® C741	Intel® C741	Intel® C741
System Memory (Max.)	8 DIMM slots; Up to 2TB DDR5 5600MT/s	8 DIMM slots; Up to 2TB DDR5 5600MT/s	8 DIMM slots; Up to 2TB DDR5 5600MT/s
Expansion Slots	Slot 1: PCIe 5.0 x16 FHFL Slot 2: PCIe 5.0 x16 FHFL Slot 3: PCIe 5.0 x8 (in x16) LP	Slot 1: PCIe 5.0 x16 FHFL Slot 2: PCIe 5.0 x16 FHFL Slot 3: PCIe 5.0 x8 (in x16) LP	Slot 1: PCIe 5.0 x16 FHFL Slot 3: PCIe 5.0 x16 FHFL Slot 5: PCIe 5.0 x8 LP Slot 6: PCIe 5.0 x8 LP
Onboard Storage Controller	Intel® SATA	Intel® SATA	Intel® SATA
Connectivity	2x 1GbE RJ45 port(s) with Intel® Ethernet Controller i210	2x 1GbE RJ45 port(s) with Intel® Ethernet Controller i210	2x 1GbE RJ45 port(s) with Intel® Ethernet Controller i210
VGA/Audio	1 onboard VGA port	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM
Drive Bays	10 hot-swap 2.5" NVMe/SATA/SAS drive bays; 10 2.5" NVMe hybrid	4 hot-swap 3.5" SATA/SAS drive bays; Optional slim DVD module	8 hot-swap 3.5" SATA/SAS drive bays; 4 3.5" NVMe hybrid; 2 optional 2.5" hot-swap SATA drive bays (rear); Optional slim DVD module
Power Supply	Redundant 860W Platinum level (94%)	Redundant 860W Platinum level (94%)	Redundant 920W platinum level
Cooling System	5 heavy duty 4cm fans (1 optional fan)	5 heavy duty 4cm fans (1 optional fan)	3 heavy duty 8cm fans
Form Factor	1U Rackmount Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 596.9 x 215.9 x 855.98mm (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: 609.6 x 203.2 x 812.8mm (24" x 8" x 32")	2U Rackmount Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5") Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")

X13 MP SYSTEMS

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



2U 4-way Compute-optimized



2U 4-way Storage-optimized



6U 8-way GPU-optimized



MODEL	SYS-241H-TNRTP	SYS-241E-TNRTP	SYS-681E-TR
Processor Support	5th/4th Gen Intel® Xeon® Scalable processors Quad Socket LGA-4677 (Socket E) supported TDP up to 350W; 3 UPI up to 16GT/s	5th/4th Gen Intel® Xeon® Scalable processors Quad Socket LGA-4677 (Socket E) supported TDP up to 250W; 3 UPI up to 16GT/s	5th/4th Gen Intel® Xeon® Scalable processors Octa Socket LGA-4677 (Socket E) supported TDP up to 350W; 4 UPI up to 16GT/s
Key Applications	<ul style="list-style-type: none"> SAP HANA HCI In-Memory Database Scientific Virtualization ERP, CRM Business Intelligence Artificial Intelligence (AI) up to 12 PCIe expansion provides scalability as business grows 	<ul style="list-style-type: none"> SAP HANA HCI In-Memory Database Scientific Virtualization ERP, CRM Business Intelligence Artificial Intelligence (AI) up to 8 PCIe expansion provides scalability as business grows 	<ul style="list-style-type: none"> Scale -up HPC Research Lab/National Lab Virtualization, ERP, CRM In-Memory Database
Outstanding Features	<ul style="list-style-type: none"> Support up to 2 double-width GPU/FPGA to accelerate AI workloads Compute Optimized 4-Way Server 	<ul style="list-style-type: none"> Support up to 2 double-width GPU/FPGA to accelerate AI workloads Storage Optimized 4-Way Server 	<ul style="list-style-type: none"> up to 26 PCIe expansion provides scalability as business grows Support up to 12 double-width GPU/FPGA to accelerate AI workloads
Serverboard	SUPER® X13QE+	SUPER® X13QE+	SUPER® X13OEI-CPU
Chipset	Intel® C741	Intel® C741	Intel® C741
System Memory (Max.)	64 DIMM slots UP to 16TB: 64x 256GB DRAM UP to 24TB: 32x 256GB DRAM and 32x 512GB Intel® Optane™ Persistent Memory	64 DIMM slots UP to 16TB: 64x 256GB DRAM UP to 24TB: 32x 256GB DRAM and 32x 512GB Intel® Optane™ Persistent Memory	128 DIMM slots UP to 32TB: 128x 256GB DRAM UP to 48TB: 64x 512GB Intel® Optane™ Persistent Memory and 64x 256GB DRAM
Expansion Slots	2 PCIe 5.0 x8 FHFL slot(s) 2 PCIe 5.0 x16 FHFL slot(s) 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 4.0/5 x8 LP optional slot(s) 2 PCIe 4.0/5 x16 LP optional slot(s) PCIe 5.0 x16 AIOM slot(s) PCIe 5.0 x8 (x16 slot) AIOM slot(s) 2 M.2 SATA3/NVMe3 slot(s)	2 PCIe 5.0 x8 FHFL slot(s) 2 PCIe 5.0 x16 FHFL slot(s) 2 PCIe 5.0 x16 FHHL slot(s) PCIe 5.0 x16 AIOM slot(s) PCIe 5.0 x8 (x16 slot) AIOM slot(s) 2 M.2 SATA3/NVMe3 slot(s)	12 PCIe 5.0 x16 FHFL slot(s) 12 PCIe 5.0 x16 FHHL optional slot(s) 2 PCIe 5.0 x16 LP internal optional slot(s) 2 M.2 SATA3/NVMe3 slot(s)
Onboard Storage Controller	Intel® SATA	Intel® SATA	Intel® SATA
Connectivity	via AIOM	via AIOM	1x 1GbE RJ45 port(s)
VGA/Audio	1 VGA port(s), 1 DisplayPort(s)	1 VGA port(s), 1 DisplayPort(s)	1 VGA port(s), 1 DisplayPort(s)
Management	Intel® Node Manager; IPMI 2.0; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	8x 2.5" hot-swap NVMe/SAS3/SATA3 drive bays; Optional RAID support via RAID controller AOC	24x 2.5" hot-swap NVMe/SAS3/SATA3 drive bays; 24x 2.5" NVMe hybrid; Optional RAID support via RAID controller AOC	24x 2.5" hot-swap NVMe/SAS3/SATA3 drive bays; 24x 2.5" NVMe hybrid; Optional RAID support via RAID controller AOC
Peripheral Bays	None	None	None
Power Supply	Redundant 2700W Titanium level (96%)	Redundant 1600W Titanium level (96%)	Redundant 2600W Titanium level (96%)
Cooling System	3x 8cm and 2x 6cm heavy duty fan(s)	6x 6cm heavy duty fan(s)	10x 8cm heavy duty fan(s)
Form Factor	2U Rackmount Enclosure: 438.4 x 87.9 x 812.9mm (17.3" x 3.5" x 32") Package: 672 x 250 x 1100mm (26.5" x 9.75" x 43.5")	2U Rackmount Enclosure: 438.4 x 87.9 x 849.3mm (17.3" x 3.5" x 33.4") Package: 672 x 250 x 1100mm (26.5" x 9.75" x 43.5")	6U Rackmount Enclosure: 449 x 265 x 841mm (17.68" x 10.4" x 33.1") Package: 720 x 922 x 1080mm (28.34" x 36.3" x 42.5")

X13 MAINSTREAM

NEW!

5th/4th Gen
Intel® Xeon®
Scalable
processors
Supported



MODEL	SYS-621P-TR SYS-621P-TRT	SYS-221P-C9R SYS-221P-C9RT
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors up to 300W	Dual 5th/4th Gen Intel® Xeon® Scalable processors up to 300W
Key Applications	<ul style="list-style-type: none"> Virtualization Compute Intensive Applications Application and data serving Enterprise Server 	<ul style="list-style-type: none"> Virtualization Compute Intensive Applications Application and data serving Enterprise Server
Outstanding Features	<ul style="list-style-type: none"> Cost effective all-purpose 2U rackmount server 	<ul style="list-style-type: none"> Cost effective all-purpose 2U rackmount server
Serverboard	-TR: SUPER® X13DEI -TRT: SUPER® X13DEI-T	-C9R: SUPER® X13DEI -C9RT: SUPER® X13DEI-T
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; Up to 4TB DDR5-5600MT/s	16 DIMM slots; Up to 4TB DDR5-5600MT/s
Expansion Slots	2 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots	1 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots
Connectivity	-TR: 2 1GbE ports -TRT: 2 10GbE ports	-C9R: 2 1GbE ports -C9RT: 2 10GbE ports
VGA/Audio	1 VGA port	1 VGA port
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; Supermicro Out of Band (OOB) License	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; Supermicro Out of Band (OOB) License
Drive Bays	8 hot-swap 3.5" SATA drive bays (optional SAS/NVMe)	16 hot-swap 2.5" SATA drive bays (optional 8 SAS/4 NVMe)
Peripheral Bays	1x slim DVD (optional)	1x (slim or 5.25") DVD (optional)
Power Supply	Redundant 1200W Titanium level (96%)	Redundant 1200W Titanium level (96%)
Cooling System	3 center mounted 8cm fans	3 heavy duty 8cm fans
Form Factor	2U Rackmount Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5") Package: 678 x 290 x 876mm (26.7" x 11.4" x 34.5")	2U Rackmount Enclosure: 437 x 89 x 630mm (17.2" x 3.5" x 24.8") Package: 737 x 279 x 983mm (29" x 11" x 38.7")

X13 MAINSTREAM

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	SYS-741P-TR	SYS-741P-TRT
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors up to 300W	Dual 5th/4th Gen Intel® Xeon® Scalable processors up to 300W
Key Applications	<ul style="list-style-type: none"> Virtualization Compute Intensive Applications Application and data serving Enterprise Server 	<ul style="list-style-type: none"> Virtualization Compute Intensive Applications Application and data serving Enterprise Server
Outstanding Features	<ul style="list-style-type: none"> Cost-effective general purpose tower/4U rackmount server 	<ul style="list-style-type: none"> Cost-effective general purpose tower/4U rackmount server
Serverboard	SUPER® X13DEI-T (10GbE) SUPER® X13DEI-T (1GbE)	SUPER® X13DEI-T (10GbE) SUPER® X13DEI-T (1GbE)
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; Up to 4TB DDR5-5600MT/s	16 DIMM slots; Up to 4TB DDR5-5600MT/s
Expansion Slots	2 PCIe 5.0 x8 FH slots 4 PCIe 5.0 x16 FH slots	2 PCIe 5.0 x8 FH slots 4 PCIe 5.0 x16 FH slots
Onboard Storage Controller	Intel® C741	Intel® C741
Connectivity	2 1GbE ports	2 10GbE ports
VGA/Audio	1 VGA port	1 VGA port
Management	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)	IPMI 2.0; KVM with dedicated LAN ; Redfish API; Super Diagnostics Offline ; SuperDoctor® 5; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM)
Drive Bays	8 hot-swap 3.5" SATA drive bays (optional 8 SAS/4 NVMe)	8 hot-swap 3.5" SATA drive bays (optional 8 SAS/4 NVMe)
Peripheral Bays	3x 5.25" DVD (optional)	3x 5.25" DVD (optional)
Power Supply		
Cooling System	2 rear/3 middle fans	2 rear/3 middle fans
Form Factor	Tower/4U Rackmount Enclosure: 178 x 452 x 647mm (7" x 17.8" x 25.5") Package: 356 x 625 x 795mm (14" x 24.6" x 31.3")	Tower/4U Rackmount Enclosure: 178 x 452 x 647mm (7" x 17.8" x 25.5") Package: 356 x 625 x 795mm (14" x 24.6" x 31.3")

X13 WORKSTATIONS

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported



DP Workstation



UP Workstation



UP Workstation



MODEL	SYS-751A-I	SYS-531A-I	SYS-551A-T
Processor Support	5th/4th Gen Intel® Xeon® Scalable Processors Dual Socket LGA-4677 (Socket E) supported TDP up to 350W; 4 UPI	Intel® Xeon® W-2400 processors Single Socket LGA4677 (Socket E) supported TDP up to 250W	Intel® Xeon® W-3400 processors Single Socket LGA4677 (Socket E) supported TDP up to 350W
Key Applications	<ul style="list-style-type: none"> Engineering/scientific research Multimedia/Digital Content creation CAD Rendering 	<ul style="list-style-type: none"> VR Content Development 2D/3D Content Creation 	<ul style="list-style-type: none"> Product Design and Engineering Simulation
Outstanding Features	<ul style="list-style-type: none"> PCIe 5.0 supporting up to 2 double width active GPU cards Dual PCIe Gen5 M.2 expansion slots Up to 4 PCIe Gen5 NVMe U.2 drives with optional cables and converter trays IPMI support Dual 10Gbps Ethernet ports 	<ul style="list-style-type: none"> Supports Xeon® W-2400 Processors 3 PCIe 5.0 x16 slots 1x 10GBase-T and 1x 1GbE 1200W Platinum power supply 	<ul style="list-style-type: none"> Supports Xeon® W-3400 Processors with TDP up to 350W Supports optional closed-loop liquid cooling module 6 PCIe 5.0 x16 slots 2000W Platinum power supply 1x 10GBase-T and 1x 1GbE
Serverboard	SUPER® X13DAI-T	SUPER® X13SRA-TF	SUPER® X13SWA-TF
Chipset	Intel® C741	Intel® W790	Intel® W790
System Memory (Max.)	16 DIMM slots Up to 2TB: 16x 128GB DRAM	8 DIMM slots Up to 1TB: 8x 128GB DRAM	16 DIMM slots Up to 2TB: 16x 128GB DRAM
Expansion Slots	1 PCIe 5.0 x8 FHHL slot(s) 5 PCIe 5.0 x16 FHFL slot(s)	PCIe 3.0 x4 FHFL slot(s) 3 PCIe 3.0 x16 FHFL slot(s)	6 PCIe 3.0 x16 FHFL slot(s)
Onboard Storage Controller	Intel® SATA	Intel® W790	Intel® W790
Connectivity	2x 10GbE port(s)	1x 10GbE RJ45 port(s) with Marvell AQC113 1x 1GbE RJ45 port(s) with Intel® Ethernet Controller I210-AT	1x 10GbE RJ45 port(s) with Marvell AQC113 1x 1GbE RJ45 port(s) with Intel® Ethernet Controller I210-AT
VGA/Audio	1 VGA port	1 VGA port	1 VGA port
Management	IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; SPM; SUM; SuperDoctor 5; Watch Dog	IPMI 2.0; SPM; SUM; SuperDoctor 5; Watch Dog
Drive Bays	4x 3.5" SATA/NVMe drive bays; 4x 2.5" NVMe hybrid; Optional RAID support via RAID controller AOC	4x 3.5" SATA drive bays;	2x 2.5" SATA drive bays;
Peripheral Bays	2x 5.25" (optional)	2x 5.25"	2x 5.25"
Power Supply	2000W Platinum level (92%)	1200W Platinum level (92%)	2000W Platinum level (92%)
Cooling System	3x 12cm heavy duty fan(s)	2x 12cm heavy duty fan(s)	2x 120mm 2200 RPM Front intake fans; 1x 120mm 2200 RPM rear exhaust fan
Form Factor	Tower or 5U Rackmount Enclosure: 221 x 536 x 574mm (8.7" x 21.1" x 22.6") Package: 371 x 701 x 711mm (14.6" x 27.6" x 28")	Mid-Tower Rackmount Enclosure: 193 x 424 x 525.3mm (7.6" x 16.7" x 20.68") Package: 304 x 543 x 642mm (11.97" x 21.38" x 25.28")	5U/Full Tower Rackmount Enclosure: 222 x 535 x 573mm (8.74" x 21.06" x 22.56") Package: 372 x 708 x 724mm (14.6" x 27.8" x 28.5")

X13 DP SERVERBOARDS

NEW!

5th/4th Gen Intel® Xeon® Scalable processors Supported

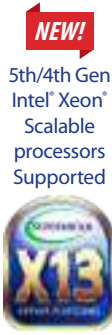


MODEL	X13DAI-T	X13DEI	X13DEI-T
Processor	5th/4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP	5th/4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP	5th/4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
Chipset	Intel® C741	Intel® C741	Intel® C741
Form Factor	EATX, 12.1" x 13.1" (30.734cm x 33.274cm)	EATX, 12.1" x 13.05" (30.74cm x 33.15cm)	EATX, 12.1" x 13.05" (30.74cm x 33.15cm)
Memory Capacity & Slots	Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s, in 16 DIMM slots	Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s, in 16 DIMM slots	Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s, in 16 DIMM slots
Expansion Slots	1 PCIe 5.0 x8, 5 PCIe 5.0 x16, 4 PCIe 5.0 x4 NVMe M.2 Interface: 2 PCIe 5.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key	2 PCIe 5.0 x8, 4 PCIe 5.0 x16 M.2 Interface: 2 PCIe 4.0 x2 Form Factor: 2280/22110 M.2 Key: M-Key	2 PCIe 5.0 x8, 4 PCIe 5.0 x16 M.2 Interface: 2 PCIe 4.0 x2 Form Factor: 2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C741 controller for 8 SATA3 ports; RAID N/A; via SlimSAS Intel® C741 controller for 2 SATA3 ports; RAID N/A; Internal Port(s)	Intel® C741 controller for 8 SATA3 ports; via SlimSAS Intel® C741 controller for 2 SATA3 ports; Internal Port(s)	Intel® C741 controller for 8 SATA3 ports; via SlimSAS Intel® C741 controller for 2 SATA3 ports; Internal Port(s)
Onboard LAN	Dual LAN with Broadcom BCM57416 10GBase-T	Dual LAN with Broadcom BCM5720 10GBase-T Single LAN with Realtek RTL8211F PHY	Dual LAN with Broadcom BCM57416 10GBase-T Single LAN with Realtek RTL8211F PHY
Onboard VGA	1 VGA D-Sub Connector port(s)	1 VGA D-Sub Connector port(s)	1 VGA D-Sub Connector port(s)
USB Ports	2 USB 2.0 port(s) (2 via header) 6 USB 3.0 port(s) (4 rear type A; 2 via header) 1 USB 3.1 Gen2 port(s) (1 via header)	6 USB 3.2 Gen1 port(s) (2 via header; 4 rear) 3 USB 2 port(s) (1 Type A; 2 via header)	6 USB 3.2 Gen1 port(s) (2 via header; 4 rear) 3 USB 2 port(s) (1 Type A; 2 via header)
Other Onboard I/O Devices	Onboard TPM and TPM header 2 M.2 PCIe 5.0 x8 1x Realtek ALC888S 7.1 HD Audio port(s) Realtek ALC888S 7.1 HD Audio	2 COM Port(s) (1 header; 1 rear) TPM header 3 M.2 PCIe 5.0 x8	2 COM Port(s) (1 header; 1 rear) TPM header 3 M.2 PCIe 5.0 x8
Manageability	SPM, SUM, SSM, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, Watchdog, SMCIPIITool, Trusted Platform Module (TPM), CPU thermal trip support for processor protection, Wake-on-LAN	SPM, SUM, SSM, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, Watchdog, SMCIPIITool, Trusted Platform Module (TPM), CPU thermal trip support for processor protection, Wake-on-LAN	SPM, SUM, SSM, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, Watchdog, SMCIPIITool, Trusted Platform Module (TPM), CPU thermal trip support for processor protection, Wake-on-LAN
PC Health Monitoring	System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +3.3V standby, Vcore, Vmem, Peripheral temperature, Platform Environment Control Interface (PECI)/(TSI)	System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +3.3V standby, Veore, Vmem, Peripheral temperature, Platform Environment Control Interface (PECI)/(TSI)	System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +3.3V standby, Veore, Vmem, Peripheral temperature, Platform Environment Control Interface (PECI)/(TSI)
Thermal Control	13x 4-pin fan headers (up to 13 fans) Fan speed control, Overheat LED indication, CPU thermal trip support, 13x fans with tachometer monitoring, Thermal Monitor 2 (TM2) support, PECI, Monitoring for CPU and chassis environment	8x 4-pin fan headers (up to 8 fans) Fan speed control Overheat LED indication 8x fans with tachometer monitoring	8x 4-pin fan headers (up to 8 fans) Fan speed control Overheat LED indication 8x fans with tachometer monitoring
Other Features	Node Manager Support M.2 NGFF connector Control of power-on for recovery from AC power loss Chassis intrusion detection ACPI power management	UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management	UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management
BIOS	AMI 32MB AMI UEFI	AMI 32MB AMI UEFI	AMI 32MB AMI UEFI

X13 UP SERVERBOARDS

HPC, All PCIe 5.0 slots


HPC, All PCIe 5.0 slots



MODEL	X13SEI-F	X13SEI-TF
Processor	5th/4th Gen Intel® Xeon® Scalable processors Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP	5th/4th Gen Intel® Xeon® Scalable processors Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
Chipset	Intel® C741	Intel® C741
Form Factor	EATX, 12.3" x 10.3" (31.24cm x 26.16cm)	EATX, 12.3" x 10.3" (31.24cm x 26.16cm)
Memory Capacity & Slots	Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s, in 8 DIMM slots
Expansion Slots	2 PCIe 5.0 x16, 3 PCIe 5.0 x8, 2 PCIe 5.0 x8 PCIe5.0 MCIO connector M.2 Interface: 2 PCIe 5.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key	2 PCIe 5.0 x16, 3 PCIe 5.0 x8, 2 PCIe 5.0 x8 PCIe5.0 MCIO connector M.2 Interface: 2 PCIe 5.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C741 controller for 10 SATA3 (6 Gbps) ports	Intel® C741 controller for 10 SATA3 (6 Gbps) ports
Onboard LAN	Dual LAN with 1GbE with Intel® I210	Dual LAN with 10GBase-T with Intel® X550
Onboard VGA	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)
USB Ports	2 USB 2 port(s) (2 rear) 4 USB 3.2 Gen1 port(s) (2 rear; 1 type A; 1 via header)	2 USB 2 port(s) (2 rear) 4 USB 3.2 Gen1 port(s) (2 rear; 1 type A; 1 via header)
Other Onboard I/O Devices	1 COM Port(s) (1 header) 2 SATA DOM (Disk on Module) power connector support TPM 2 Header	1 COM Port(s) (1 header) 2 SATA DOM (Disk on Module) power connector support TPM 2 Header
Manageability	SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, Trusted Platform Module (TPM), Chassis Intrusion Detection	SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, Trusted Platform Module (TPM), Chassis Intrusion Detection
PC Health Monitoring	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 6 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 6 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages
Thermal Control	7x 4-pin fan headers (up to 7 fans) Fan speed control Overheat LED indication 7 fans with tachometer status monitoring	7x 4-pin fan headers (up to 7 fans) Fan speed control Overheat LED indication 7 fans with tachometer status monitoring
Other Features	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management
BIOS	AMI UEFI	AMI UEFI

X13 UP SERVERBOARDS

NEW!
5th/4th Gen Intel® Xeon® Scalable processors Supported



WIO, 1U/3AOC



WIO, 1U/3AOC



HP Embedded SVR

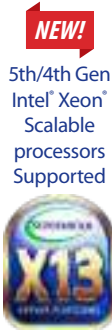


HP Embedded SVR



MODEL	X13SEW-F	X13SEW-TF	X13SEM-F	X13SEM-TF
Processor	5th/4th Gen Intel® Xeon® Scalable processors Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP	5th/4th Gen Intel® Xeon® Scalable processors Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP	5th/4th Gen Intel® Xeon® Scalable processors Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP	5th/4th Gen Intel® Xeon® Scalable processors Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
Chipset	Intel® C741	Intel® C741	Intel® C741	Intel® C741
Form Factor	Proprietary WIO, 8" x 13" (20.32cm x 33.02cm)	Proprietary WIO, 8" x 13" (20.32cm x 33.02cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Memory Capacity & Slots	Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s, in 8 DIMM slots
Expansion Slots	1 PCIe 5.0 x8 Right Riser (in x16) slot, 1 PCIe 5.0 x32 Left Riser Slot, 5 PCIe 5.0 x8 PCIe5.0 MCIO connector M.2 Interface: 1 PCIe 3.0 x2 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCIe 5.0 x8 Right Riser (in x16) slot, 1 PCIe 5.0 x32 Left Riser Slot, 5 PCIe 5.0 x8 PCIe5.0 MCIO connector M.2 Interface: 1 PCIe 3.0 x2 Form Factor: 2280/22110 M.2 Key: M-Key	2 PCIe 5.0 x16, 1 PCIe 5.0 x8 2 PCIe 3.0 x4 NVMe Internal Port(s) 4 PCIe 5.0 x8 MCIO connectors M.2 Interface: 2 PCIe 4.0 x2 Form Factor: 2280/22110 M.2 Key: M-Key	2 PCIe 5.0 x16, 1 PCIe 5.0 x8 2 PCIe 3.0 x4 NVMe Internal Port(s) 4 PCIe 5.0 x8 MCIO connectors M.2 Interface: 2 PCIe 4.0 x2 Form Factor: 2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C741 controller for 10 SATA3 (6 Gbps) ports	Intel® C741 controller for 10 SATA3 (6 Gbps) ports	Intel® C741 controller for 10 SATA3 (6 Gbps) ports	Intel® C741 controller for 10 SATA3 (6 Gbps) ports
Onboard LAN	Dual LAN with 1GbE with Intel® I210	Dual LAN with 10GBase-T with Intel® X550	Dual LAN with 1GbE with Intel® I350	Dual LAN with 10GBase-T with Intel® X550
Onboard VGA	1 VGA D-Sub Connector port(s)	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)
USB Ports	5 USB 2 port(s) (2 via header; 2 rear; 1 Type A) 4 USB 3.2 Gen1 port(s) (2 via header; 2 rear)	5 USB 2 port(s) (2 via header; 2 rear; 1 Type A) 4 USB 3.2 Gen1 port(s) (2 via header; 2 rear)	6 USB 2 port(s) (2 rear; 4 via header) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)	6 USB 2 port(s) (2 rear; 4 via header) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)
Other Onboard I/O Devices	2 COM Port(s) (1 header; 1 rear) 2 SATA DOM (Disk on Module) power connector support TPM 2 Header	2 COM Port(s) (1 header; 1 rear) 2 SATA DOM (Disk on Module) power connector support TPM 2 Header	1 COM Port(s) (1 rear) 2 SATA DOM (Disk on Module) power connector support TPM 2 Header	1 COM Port(s) (1 rear) 2 SATA DOM (Disk on Module) power connector support TPM 2 Header
Manageability	SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, Trusted Platform Module (TPM), Chassis Intrusion Detection	SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, Trusted Platform Module (TPM), Chassis Intrusion Detection	SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, Trusted Platform Module (TPM), Chassis Intrusion Detection	SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, Trusted Platform Module (TPM), Chassis Intrusion Detection
PC Health Monitoring	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 6 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages 6x 4-pin fan headers (up to 6 fans)	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 6 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages 6x 4-pin fan headers (up to 6 fans)	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 5 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages 5x 4-pin fan headers (up to 5 fans)	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 5 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages 5x 4-pin fan headers (up to 5 fans)
Thermal Control	Fan speed control 6 fans with tachometer status monitoring Overheat LED indication	Fan speed control 6 fans with tachometer status monitoring Overheat LED indication	Fan speed control 5 fans with tachometer status monitoring Overheat LED indication	Fan speed control 5 fans with tachometer status monitoring Overheat LED indication
Other Features	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

X13 UP SERVERBOARDS

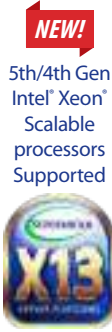


5th/4th Gen Intel® Xeon® Scalable processors Supported



MODEL	X13SCH-F	X13SCH-LN4F	X13SCD-F
Processor	Intel® Xeon® E-2400/Pentium® Processor Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP *Pentium® G7400 and G7400T	Intel® Xeon® E-2400/Pentium® Processor Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP *Pentium® G7400 and G7400T	Intel® Xeon® E-2400/Pentium® Processor Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP *Pentium® G7400 and G7400T
Chipset	Intel® C266	Intel® C266	Intel® C266
Form Factor	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Proprietary, 4.75" x 15.69" (12.07cm x 39.85cm)
Memory Capacity & Slots	Up to 128GB Unbuffered ECC UDIMM, DDR5-4400MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC UDIMM, DDR5-4400MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC UDIMM, DDR5-4400MHz, in 4 DIMM slots
Expansion Slots	1 PCIe 5.0 x16, 2 PCIe 4.0 x4 (in x8 slot) M.2 Interface: 2 PCIe 4.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCIe 5.0 x16, 2 PCIe 4.0 x4 (in x8 slot) M.2 Interface: 2 PCIe 4.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCIe 5.0 x8 (Low Profile), 1 PCIe 4.0 x8 (Micro Low Profile) 2 PCIe 4.0 x4 NVMe M.2 Interface: 2 SATA/PCIe 4.0 x4 Form Factor: 2242/2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C266 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10; via SlimSAS	Intel® C266 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10; via SlimSAS	Intel® C266 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1
Onboard LAN	Dual LAN with 1GbE with Intel® I210	Quad LAN with 1GbE with Intel® I210	N/A
Onboard VGA	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)	1 VGA port(s) Via KVM connector
USB Ports	6 USB 2.0 port(s) (4 via header; 2 rear) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)	6 USB 2.0 port(s) (4 via header; 2 rear) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)	1 USB 3.2 Gen2 port(s) (1 type C) 2 USB 2 port(s) (2 rear Via KVM connector)
Other Onboard I/O Devices	2 COM Port(s) (1 header; 1 rear) TPM 2 Header	2 COM Port(s) (1 header; 1 rear) TPM 2 Header	1 COM Port(s) (1 Serial Port Via KVM connector) TPM 2 Header & Chip both
Manageability	N/A	N/A	N/A
PC Health Monitoring	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, Memory Voltages, 7-fan status, +3.3V standby	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, Memory Voltages, 7-fan status, +3.3V standby	VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby, 1-fan status
Thermal Control	7x 4-pin fan headers (up to 7 fans) Fan speed control Overheat LED indication 7 fans with tachometer status monitoring	7x 4-pin fan headers (up to 7 fans) Fan speed control Overheat LED indication 7 fans with tachometer status monitoring	Fan speed control
Other Features	WOL, UID, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion header, ACPI power management	WOL, UID, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion header, ACPI power management	N/A
BIOS	AMI 32MB AMI UEFI	AMI 32MB AMI UEFI	AMI 32MB AMI UEFI

X13 UP SERVERBOARDS



MODEL	X13SCW-F	X13SCL-F	X13SCL-IF
Processor	Intel® Xeon® E-2400/Pentium® Processor Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP *Pentium® G7400 and G7400T	Intel® Xeon® E-2400/Pentium® Processor Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP *Pentium® G7400 and G7400T	Intel® Xeon® E-2400/Pentium® Processor Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP *Pentium® G7400 and G7400T
Chipset	Intel® C266	Intel® C262	Intel® C262
Form Factor	Proprietary WIO, 8" x 13" (20.32cm x 33.02cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)
Memory Capacity & Slots	Up to 128GB Unbuffered ECC UDIMM, DDR5-4400MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC UDIMM, DDR5-4400MHz, in 4 DIMM slots	Up to 64GB Unbuffered ECC UDIMM, DDR5-4800MHz, in 2 DIMM slots
Expansion Slots	1 PCIe 5.0 x16 Left Riser Slot, 1 PCIe 4.0 x4 Right Riser (in x16) slot 2 PCIe 4.0 x4 NVMe M.2 Internal Port(s) M.2 Interface: 2 PCIe 4.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key	2 PCIe 4.0 x4 (in x8 slot), 1 PCIe 5.0 x8, 1 PCIe 5.0 x8 (in x16 slot) M.2 Interface: 1 PCIe 4.0 x4 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCIe 5.0 x16, 1 PCIe 4.0 x4 SlimSAS, 2 PCIe 4.0x4 or 1 PCIe 4.0x4 & 4 SATA M.2 Interface: 1 PCIe 4.0 x4 Form Factor: 2280 M.2 Key: M-Key
Onboard RAID Controller	Intel® C266 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10; via SlimSAS	Intel® C262 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C262 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 1GbE with Intel® I210	Dual LAN with 1GbE with Intel® I210	Dual LAN with 1GbE with Intel® I210
Onboard VGA	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)	1 VGA D-Sub Connector port(s) 1 Aspeed AST2600 BMC port(s)
USB Ports	4 USB 2.0 port(s) (2 rear; 2 via header) 2 USB 3.2 Gen1 port(s) (2 via header) 3 USB 3.2 Gen2 port(s) (2 rear; 1 type A)	6 USB 2.0 port(s) (4 via header; 2 rear) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)	2 USB 2.0 port(s) (2 rear) 4 USB 3.2 Gen1 port(s) (2 via header; 2 rear)
Other Onboard I/O Devices	2 COM Port(s) (1 header; 1 rear) TPM 2 Header	2 COM Port(s) (1 header; 1 rear) TPM 2 Header	1 COM Port(s) (1 rear) TPM 2 Header
Manageability	N/A	N/A	N/A
PC Health Monitoring	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 6-fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages, +3.3V standby	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, Memory Voltages, 7-fan status, +3.3V standby	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 4-fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages, +3.3V standby
Thermal Control	6x 4-pin fan headers (up to 6 fans) Fan speed control 6 fans with tachometer status monitoring Overheat LED indication	7x 4-pin fan headers (up to 7 fans) Fan speed control Overheat LED indication 7 fans with tachometer status monitoring	4x 4-pin fan headers (up to 4 fans) Fan speed control 4 fans with tachometer monitoring Overheat LED indication
Other Features	WOL, UID, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management	WOL, UID, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion header, ACPI power management	WOL, UID, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion header, ACPI power management
BIOS	AMI 32MB AMI UEFI	AMI 32MB AMI UEFI	AMI 32MB AMI UEFI

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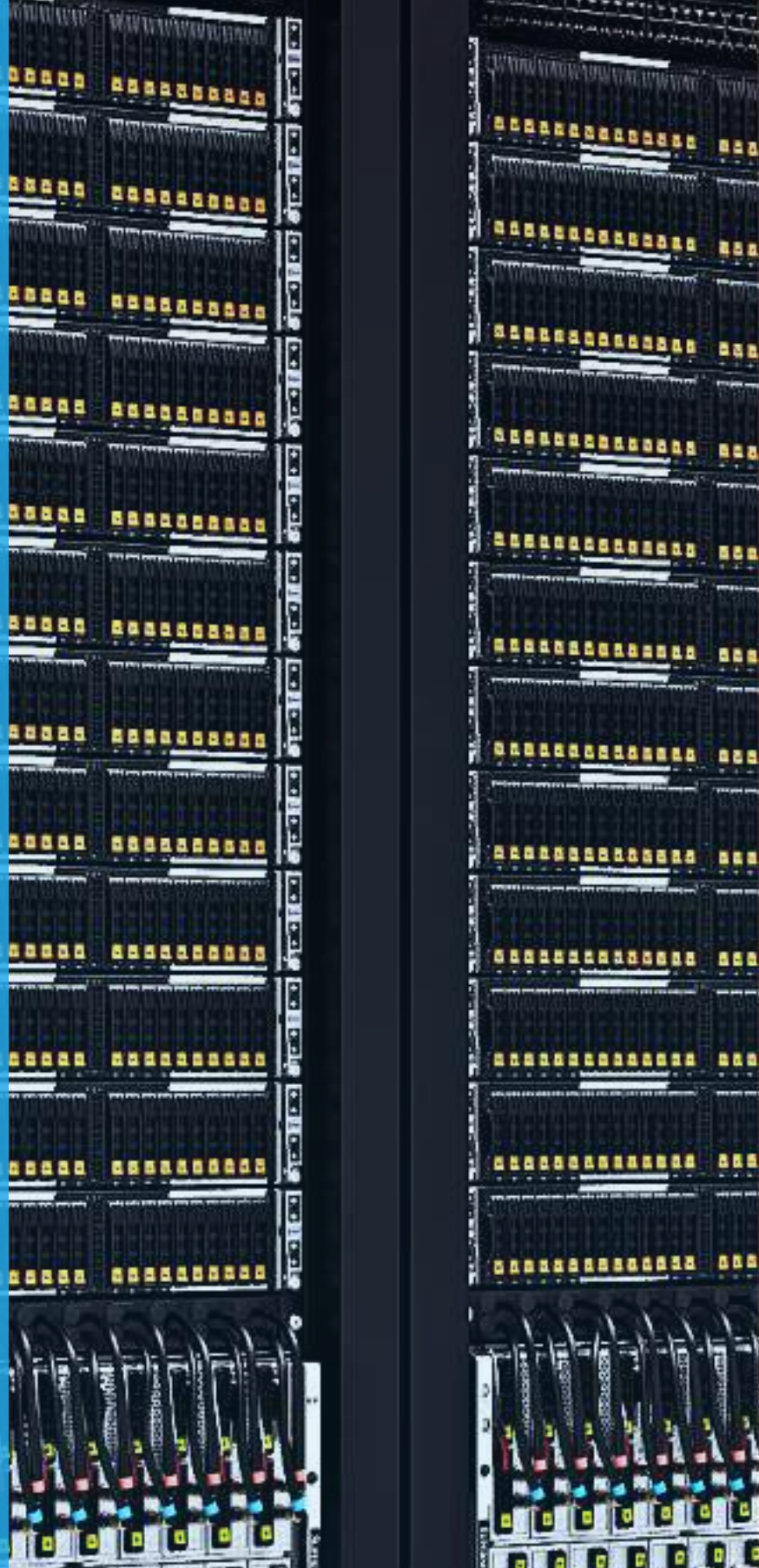
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