

# X13 Hyper-E

## Best-in-class Performance and Flexibility for Edge Data Centers



### Flagship performance in a short-depth form factors

- Short-depth form factor (574mm/22.6") for space-constrained environments
- Dual 4th Gen Intel® Xeon® Scalable Processors
- Enhanced serviceability in the field with front I/O
- Up to 3 PCIe 5.0 x16 double-width or 6 PCIe 5.0 x16 single-width slots
- AC and DC power supply options

### Short-depth, Maximum Performance

Hyper-E brings the performance and flexibility of Supermicro's flagship Hyper series to the edge with short-depth form factors designed for edge data center and telco deployments. Telco-optimized configurations are NEBS Level 3 certified and feature optional DC power supplies on selected models.

### Optimized for 5G and Telco Applications

The compact form factor, many expansion options, and powerful compute make the Hyper-E ideal for 5G, telco and intelligent edge applications including Cloud, Network Function Virtualization, AI Edge Inferencing, Telco Data Center and 5G Core/Edge. All I/O and expansion slots are front-accessible for easy servicing in space-constrained environments, while maintenance-friendly design innovations eliminate the need for tools when servicing, simplifying rollout and installation.

### AI at the Edge

The Hyper-E is able to support up to 3 double-width GPU/FPGA cards, enabling it to support demanding AI workloads, such as ML training and data inferencing. Combined with its compact form factor and front access design, this make the Hyper-E a powerful platform for intelligent solutions at the edge.

### Powered by 4th Gen Intel Xeon Scalable Processors

Get data center performance at the Edge with dual 4th Gen Intel Xeon Scalable Processors up to 350W TDP each. The new processors are available in edge-optimized SKUs which feature the built-in Intel vRAN Boost accelerator which can reduce power consumption by up to 20% on vRAN workloads.



Hyper-E	SYS-221HE-FTNR	SYS-221HE-FTNRD
Processor Support	Dual Socket E (LGA-4677) 4th Gen Intel® Xeon® Scalable processors <sup>†</sup>	Dual Socket E (LGA-4677) 4th Gen Intel® Xeon® Scalable processors <sup>†</sup>
Outstanding Features	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)	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)
Memory Slots & Capacity	32 DIMM slots Up to 8TB: 32x 256GB DDR5 ECC RDIMM/RDIMM	32 DIMM slots Up to 8TB: 32x 256GB DDR5 ECC RDIMM/RDIMM
Network 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 1 RJ45 Dedicated BMC LAN port 2 USB 2.0 port(s) (2 front) 1 VGA port(s)	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 1 RJ45 Dedicated BMC LAN port 2 USB 2.0 port(s) (2 front) 1 VGA port(s)
MotherBoard	X13DEM	X13DEM
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")
Expansion Slots	Configurable PCIe slot options up to 8 PCIe 5.0 x8 (6 FHFL+ 2 FHHL) or 4 PCIe 5.0 x16 (3 FHFL + FHHL)	Configurable PCIe slot options up to 8 PCIe 5.0 x8 (6 FHFL+ 2 FHHL) or 4 PCIe 5.0 x16 (3 FHFL + FHHL)
Drive Bays	6x 2.5" hot-swap NVMe/SATA drive bays; 6x 2.5" NVMe hybrid; Optional RAID support via RAID Controller AOC	6x 2.5" hot-swap NVMe/SATA drive bays; 6x 2.5" NVMe hybrid; Optional RAID support via RAID Controller AOC
Shared Power & Cooling	Redundant 2000W Titanium level (96%) 6x heavy duty fan(s)	2x 1300W -48Vdc single output 6x heavy duty fan(s)

<sup>†</sup> Supports up to 350W TDP CPUs (Aircooled). CPUs with high TDP supported under specific conditions. Contact Technical Support for details.