Flex Reference Designs Optimized for Private Cloud

At Flex, we understand the complexities of the cloud. The solutions we deliver are optimized for performance, power and cost. We use your business requirements, technical specifications and time-to-market goals as our guiding principles for every tailored solution we manufacture—from compute and storage nodes to fully integrated racks—all optimized for supply assurance, manufacturability, quality and performance.

With Flex's deep domain expertise in design and manufacturing, we're in the unique position of being able to consistently and rapidly deliver specialized servers that suit your unique business needs. And because your success is ours, we'll collaborate with you every step of the way.

Our combination of strong design and engineering services with broad manufacturing reach is what sets us apart. We'll customize the server design that enables both the latest technology and optimal manufacturability—whatever the scale—all while delivering both high value and performance.

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Hudson Bay is the ideal building block for cloud and enterprise data centers that want the latest technology – customized to your specific requirements. When you need a time-to-market solution that delivers next-generation performance and efficiency, the Hudson Bay reference platform makes it easy to deploy custom servers that meet your unique needs.

Specifications

Form Factor	• 2U, EIA-19", Rack-mount with rear I/O • 440mm (W) x 87.9mm (H) x 886.00mm (D) • 17.323" (W) x 3.460" (H) x 34.882" (D)
Compute	• Supports two Next Generation Intel® Xeon® Scalable processors (codenamed Sapphire Rapids) scheduled for a time to market launch aligned with Intel's product introduction date • Supports up to 300W TDP, 350W under investigation
Memory	• 32x DDR5 DIMMs sockets • RDIMM/LRDIMM up to 4400 MT/s (2DPC) • Support for Intel® Optane™ persistent memory 300 series
Storage	• 24x hot-swap U.2 NVMe SSDs • 2x rear-mount hot-swap 2.5" SAS/SATA drives • 2x internal M.2 modules (22110) • 2x internal SATA-DOM
Networking	• 2x 50GbE SFP56 Ethernet ports
Integrated I/O	• 2x USB 3.0 ports (Front) • 2x USB 3.0 ports – Rear • 1x serial port (Rear) • 1x VGA port (Rear)
I/O Expansion	• 1x PCIe 5.0 x16 double-wide Full-Height, Full-Length (FHFL) for GPU / FPGA accelerators • 1x PCIe 5.0 x16 single-wide FHFL add-in card • 2x PCIe 5.0 x16 Half-Height, Half-Width add-in cards • 1x PCIe 5.0 x16 OCP 3.0 compliant add-in card
Management	• AST2600 BMC with IPMI and IKVM support • 1x 1GbE RJ45 management port
Security	• Trusted Platform Module (TPM) 2.0 support: module or integrated • BIOS/BMC security: Intel® Platform Firmware Resilience (Intel® PFR)

Flex (Reg. No. 199002645H) is the manufacturing partner of choice that helps a diverse customer base design and build products that improve the world. Through the collective strength of a global workforce across 30 countries and responsible, sustainable operations, Flex delivers technology innovation, supply chain, and manufacturing solutions to various industries and end markets.

For more information, visit flex.com.

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