

Edge AI Ready 2U System: Supports Intel® Core™ Ultra Processors (Series 2)



BCM HPS-RX880W2A

Intel® Edge System Qualification (Intel® ESQ) 2U System with Intel® Core™ Ultra Processors (Series 2), Rich I/O, Storage and Gen 5 Expansion



× intel ai

The HPS-RX880W2A is BCM Advanced Research's Intel® ESQ-qualified 2U rackmount system designed for high-performance AI inference and edge analytics. Powered by the Intel® W880 Chipset and Intel® Core™ Ultra processors (Series 2), the platform delivers heterogeneous computing through integrated CPU, GPU, and NPU acceleration, enabling efficient execution across compute-intensive edge workloads.

To support high-speed data ingestion and storage, the system includes Gen5/Gen4 M.2 NVMe and dual SlimSAS 4i (Gen4 PCIe x4) interfaces, along with flexible 2.5"/3.5" HDD/SSD options for large-scale data logging and model storage. Its next-generation expansion capability features two PCIe Gen5 x16 slots supporting bifurcation to x8/x8, making it ideal for integrating AI accelerators, vision cards, and high-bandwidth I/O devices. Dual Intel® Ethernet Controller I226-LM (2.5GbE) LAN ensures fast, reliable connectivity for real-time edge applications.

Validated for Intel® ESQ and built in a compact 2U chassis, the HPS-RX880W2A offers enterprise-grade reliability, making it well-suited for industrial automation, medical imaging, and other inference-driven edge deployments requiring dependable, long-life operation.

**2U Rackmount
with validated
Intel® Core™ Ultra
CPU/GPU/NPU
AI acceleration
and high-speed
PCIe Gen 5
expandability**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Ultra Processors



OpenVINO™
Toolkit



Intel® Ethernet

Key Features

Empowered by Intel.



High Throughput AI Acceleration



Enterprise-Grade Reliability



Integrated High-Speed Networking



Dual PCIe Gen5 and Flexible Hybrid Storage

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Product Specifications

CPU	LGA1851 supports Intel® Core™ Ultra processors (Series 2) 5/7/9 up to 125W TDP
Graphics	Intel® Integrated Graphics (CPU Dependent)
Memory	4 x DDR5 DIMMs up to 192GB DDR5 5600MHz. ECC UDIMM support (CPU dependent)
Storage	2 x M.2 M-Key NVMe (Gen 5 & Gen 4), 4 x SATA III, 2 x SlimSAS 4i (Gen4 PCIe x4), Optional 2.5" / 3.5" HDD/SSD support
Wireless Network	N/A (Wireless via 1 x M.2 E-Key slot if customer chooses to install a module)
LAN	2 x Intel® Ethernet Controller I226-LM (2.5GbE)
Operating / Storage Temp.	0°C ~ 40°C / -20°C ~ 60°C
Dimension (W x D x H)	19.84" x 17.02" x 3.46"
Weight	Approx. 24.5lbs (11.11kg)
OS	Windows 11, Linux

Learn More

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