Cisco UCS C480 ML M5 Rack Server

Overview

AI is one of the top priorities for enterprise IT. It helps drive deep insights and better decisions, improve processes, and offer a deeper understanding of customers, partners, and business. Artificial Intelligence and Machine Learning (AI/ML) enables organizations to learn from data, identify patterns, and make better decisions that augment human capabilities. This provides businesses with new ways to grow revenue, attract and retain customers, and become more operationally efficient. Almost all industries in every sector—from banking to healthcare to manufacturing—are trying to take advantage of these benefits.

The Cisco UCS® C480 ML M5 Rack Server, with eight NVIDIA V100 GPUs using NVLink technology, provides higher bandwidth and improved scalability for multi-GPU/CPU system configurations. The new C480 ML M5 system is targeted at deep learning, a compute-intensive form of machine-learning training, and complements Cisco's existing portfolio of B-Series, C-Series, and Cisco HyperFlex™ systems with GPUs to address AI/ML use cases.

Benefits

- **Powering AI at Scale**
  No compromise, adaptable platforms combined with Cisco's experience in big data and machine learning has helped many customers integrate changing data sources as part of a dynamic data pipeline.

- **Demystifying ML stacks**
  Today, Cisco® proven AI/ML computing solutions combine a broad set of technologies and applications to help extract more intelligence out of all stages of the data lifecycle while ensuring a faster, more reliable, and predictable deployment.

- **Eliminating Silos**
  Only Cisco pairs a full portfolio of AI/ML computing solutions with the simplicity and reach of Cisco Intersight's cloud-management model.

- Cisco, the worldwide leader in networking technology, provides the bandwidth and security required to move the amount of data consumed by AI through all stages of the data lifecycle.

The Cisco UCS C480 ML M5 server is an enterprise AI/ML server offering performance and capacity in a single platform. The UCS C480 ML offers the latest-generation Intel® Xeon® Scalable CPUs, integrated GPUs, and flexible options for network, storage, memory, and OS. Most importantly, the new UCS C480 ML M5 won't create a new management silo in your environment. It is supported by the full suite of Cisco UCS management tools, including Cisco Intersight, or can operate as standalone servers. Cisco Intersight is a cloud-based management platform that uses analytics to deliver proactive automation and support. By combining intelligence with automated actions, you can reduce costs dramatically and accelerate time to resolution.

Cisco UCS C480 ML M5 offers:

- Eight SXM2 V100 32G NVIDIA GPUs with NVLink Interconnect
- Dual Intel Xeon Scalable processors
- Up to 3 TB of memory using 128 GB 2666 MHz DDR4 DIMMS
- Up to 24 SAS/SATA HDD/SSD
- Up to 6 NVMe drives
- 4 PCI Express (PCIe) 3.0 slots for 100G Cisco UCS VIC 1495
- Modular internal Flex storage option: M.2 SATA
- 4 * 1600W PSUs in 3+1 redundancy
- Cisco Integrated Management Controller (IMC)
- Two 10Base-T Gbps LOM Ethernet ports

Call to action

Capitalize on the adaptability of Cisco machine learning computing solutions to power AI workloads at scale, reduce risk through the validation of a broad set of technologies designed to extract more intelligence out of all stages of the data life cycle, and simplify operations with a cloud managed system.

For more information about the Cisco UCS C480 ML M5 and the supporting software ecosystem, go to www.cisco.com/go/ai-compute.