Cisco UCS C885A M8 Rack Server

Contents

The Cisco® UCS C885A M8 Rack Server is a dense GPU server that delivers massive, scalable performance for AI workloads, such as Large Language Model (LLM) training, fine-tuning, large model inferencing, and Retrieval Augmented Generation (RAG).

Product overview

Built on the NVIDIA HGX platform, the Cisco UCS C885A M8 Rack Server is a dense-GPU server designed to deliver scalable accelerated compute capabilities to address the most demanding AI workloads, including large deep learning/Large Language Model (LLM) training, model fine-tuning, large model inferencing, and Retrieval-Augmented Generation (RAG).

The server offers a choice of 8 NVIDIA HGX H100 or H200 Tensor Core GPUs, or 8 AMD MI300X and MI350X OAM GPUs to deliver massive, accelerated computational performance in a single server, as well as one NVIDIA ConnectX-7 NIC or NVIDIA BlueField-3 SuperNIC per GPU to scale AI model training across a cluster of dense GPU servers.

The server is managed by Cisco Intersight®, which can help reduce your Total Cost of Ownership (TCO) and increase your business agility.

Note: Initially, the local server management interface will handle configuration and management, while Cisco Intersight will provide inventory capabilities through an integrated Device Connector. Full management operations and configurations through Cisco Intersight will be introduced shortly thereafter in a subsequent phase.

The server is offered in fixed configurations that are optimized for intensive AI and HPC workloads.

Features and benefits

Table 1. Summary of features and benefits of Cisco UCS C885A M8

Feature	Benefit
Eight NVIDIA HGX H100 or H200 Tensor Core GPUs with NVIDIA NVLink interconnect **or** **Eight AMD MI300X OAM GPUs with Infinity Fabric mesh**	GPU density and the high-speed interconnect for demanding AI model training jobs, such as large and small language model training and deep learning
Two AMD EPYC CPUs	High-performance, high-clock speed CPUs specifically selected for training/learning operations
Eight NVIDIA ConnectX-7 NICs or B3140H	400G East-West NICs provide high-speed inter-chassis, inter-GPU connectivity to perform training at scale. Each server also includes NVIDIA BlueField-3 DPUs to accelerate GPU access to data.
Up to 16x U.2 NVMe SSDs	High-speed local storage for data caching to deliver maximum performance
Hot-swappable, redundant power supplies	Increased high availability

Product specifications

Table 2. Specifications of Cisco UCS C885A M8 Rack Server

Item	Specifications
Form factor	8RU Rack Server
Processors	2x 4th Gen AMD EPYC 9554 64 core 3.1 GHz (Max Boost 3.7 GHz) or 2x 5th Gen AMD EPYC 9575F 64 core, 3.3 GHz (Max Boost 5 GHz) or 2x 5th Gen AMD EPYC 9535 64 core, 2.4 GHz (Max Boost 4.3 GHz)
Memory	24x 128GB DDR5 up to 6,000 MT/s RDIMMs or 24x 96GB DDR5 up to 4,800 MT/s RDIMMs or 24x 96GB DDR5 up to 6,000 MT/s RDIMMs or 24x 64GB DDR5 up to 4,800 MT/s RDIMMs or 24x 64GB DDR5 up to 6,000 MT/s RDIMMs
GPUs	8x NVIDIA HGX H100 SXM or 8x NVIDIA HGX H200 SXM or 8x AMD MI300X OAM 8x AMD MI350X OAM
Boot Drive	Up to 2x 960GB M.2 NVMe SSD
Internal Storage	Up to 16x 2.5” U.2 NVMe SSD

Item	Specifications
PCIe Slots	5x PCIe Gen5x16 FHHL for North-South NIC – NVIDIA ConnectX-7 (2x200G), NVIDIA, BlueField-3 – B3220, B3240 8x PCIe Gen5x16 HHHL for East-West NIC – NVIDIA ConnectX-7 (1x400G), NVIDIA BlueField-3 B3140H
OCP Slot	1x OCP 3.0 PCIe Gen5x8 for Intel X710-T2L 2x10G RJ45 NIC
Power Supplies	2x 2.7kW 80Plus 12V CRPS Redundant Hot-swappable PSUs (N+1) 6x 3kW 80Plus 54V MCRPS Hot-swappable Redundant PSUs (N+2)
Management	Cisco Intersight
Hardware and Software Interoperability	See the Cisco Hardware and Software Interoperability List for a complete listing of supported operating systems and peripheral options

Ordering information

UCS C885A M8 servers are offered in fixed configurations with each server product ID identifying a single fixed configuration. More details can be found in the ordering guide.

Table 3. Cisco UCS C885A M8 ordering information

Part #	Product Description
UCSC-885A-M8-H11	2x AMD EPYC 9554 3.1 GHz (Max Boost 3.75 GHz) CPUs, 8x NVIDIA HGX H100 SXM GPUs, 24x 96GB up to 4,800 MT/s DIMMs, 1x 960GB M.2 NVMe Boot Drive, 16x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 1x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H12	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x NVIDIA HGX H100 SXM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 1x 960GB M.2 NVMe Boot Drive, 16x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA BlueField-3 B3140H SuperNIC (1x400G) for East-West N/W, 1x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H13	2x AMD EPYC 9554 3.1 GHz (Max Boost 3.75 GHz) CPUs, 8x NVIDIA HGX H100 SXM GPUs, 24x 64GB up to 4,800MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H20	2x AMD EPYC 9535 2.4 GHz (Max Boost 4.3 GHz) CPUs, 8x NVIDIA HGX H200 SXM GPUs, 24x 64GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H21	2x AMD EPYC 9554 3.1 GHz (Max Boost 3.75 GHz) CPUs, 8x NVIDIA HGX H200 SXM GPUs, 24x 96GB up to 4,800MT/s DIMMs, 1x 960GB M.2 NVMe Boot Drive, 16x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 1x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H22	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x NVIDIA HGX H200 SXM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 1x 960GB M.2 NVMe Boot Drive, 16x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA BlueField-3 B3140H SuperNIC (1x400G) for East-West N/W, 1x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L

Part #	Product Description
UCSC-885A-M8-H23	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x NVIDIA HGX H200 SXM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H25	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x NVIDIA HGX H200 SXM GPUs, 24x 128GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H26	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x NVIDIA HGX H200 SXM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H27	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x NVIDIA H200 UBB GPUs, 24x 128GB 6400 DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA BlueField-3 B3220 for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-H28	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x NVIDIA HGX H200 SXM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA BlueField-3 B3140H SuperNIC (1x400G) for East-West N/W, 2x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M3X0	2x AMD EPYC 9535 2.4 GHz (Max Boost 4.3 GHz) CPUs, 8x AMD MI300X OAM GPUs, 24x 64GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M3X1	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI300X OAM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 1x 960GB M.2 NVMe Boot Drive, 16x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 1x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M3X2	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI300X OAM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 1x 960GB M.2 NVMe Boot Drive, 16x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA BlueField-3 B3140H SuperNIC (1x400G) for East-West N/W, 1x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M3X3	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI300X OAM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M3X5	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI300X OAM GPUs, 24x 96GB up to 6,000MT/s DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 2.5" 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA BlueField-3 B3220 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M352	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI350X UBB GPUs, 24x 96GB 6400 DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 1.92TB NVMe SSD Server Drives, 8x AMD Pensando Pollara 400 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L

Part #	Product Description
UCSC-885A-M8-M353	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI350X UBB GPUs, 24x 96GB 6400 DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7(2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M354	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI350X UBB GPUs, 24x 128GB 6400 DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 1.92TB NVMe SSD Server Drives, 8x AMD Pensando Pollara 400 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7 (2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M355	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI350X UBB GPUs, 24x 128GB 6400 DIMMs, 2x 960GB M.2 NVMe Boot Drive, 2x 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7(2x200G) for North-South N/W, 1x Intel X710-T2L
UCSC-885A-M8-M356	2x AMD EPYC 9575F 3.3 GHz (Max Boost 5 GHz) CPUs, 8x AMD MI350X UBB GPUs, 24x 128GB 6400 DIMMS, 2x 960GB M.2 NVMe Boot Drive, 2x 1.92TB NVMe SSD Server Drives, 8x NVIDIA ConnectX-7 (1x400G) for East-West N/W, 2x NVIDIA ConnectX-7 (2x200G) AND 2x NVIDIA ConnectX-7 (4x25G) for North-South N/W,1x Intel X710-T2L

Note: All Network Interface Cards (NICs), SuperNICs, and Data Processing Units (DPUs) in the configurations above are crypto disabled.

Warranty information

Cisco UCS C885A M8 Rack Servers have a three-year Next-Business-Day (NBD) hardware warranty and 90-day software warranty.

Cisco Support

Augmenting the Cisco UCS warranty is Cisco Success Tracks. Success Tracks add the best of both digital and human intelligence to your support experience. For more detailed information on the ST deliverables, please refer to the description here.

Product sustainability

Information about Cisco's Environmental, Social and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability reporting.

Table 4. Cisco environmental sustainability information

Sustainability Topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability Inquiries	Contact: csr_inquiries@cisco.com

Sustainability Topic		Reference
Material	Product packaging weight and materials	Contact: environment@cisco.com

Product environmental information

Product environmental information for users per Commission Regulation (EU) 2019/424
https://www.cisco.com/web/dofc/25451181.pdf

Cisco and partner services

Cisco and our industry-leading partners deliver services that accelerate your transition to Cisco UCS solutions for AI and High-Performance Computing (HPC). Cisco Unified Computing Services can help you create an agile infrastructure, accelerate time to value, reduce costs and risks, and maintain availability during deployment and migration. After deployment, our services can help you improve performance, availability, and resiliency as your business needs evolve, and help you further mitigate risk. For more information, visit https://www.cisco.com/go/unifiedcomputingservices.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

Document history

New or revised topic	Described in	Date
Support for additional fixed configurations	Ordering information	February 2025
Product environmental information	Product environmental information	February 2025

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at **https://www.cisco.com/go/offices**.

Printed in USA C78-4756706-02 07/25