



# UCS C880A M8 Rack Server

A printed version of this document is only a copy and not necessarily the latest version. Refer to the following link for the latest released version:

<https://www.cisco.com/c/en/us/products/servers-unified-computing/ucs-c-series-rack-servers/datasheet-listing.html>

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## OVERVIEW

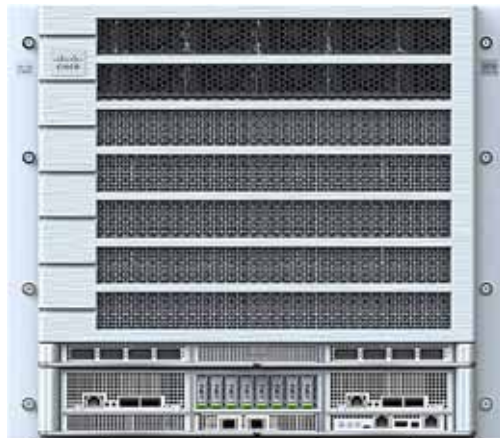
The Cisco UCS C880A M8 Rack Server is a dense GPU server designed to deliver scalable accelerated compute capabilities to address the most demanding AI workloads, including deep learning/ Large Language Model (LLM) training, model fine-tuning, large model inferencing, and Retrieval-Augmented Generation (RAG).

The Cisco UCS C880A M8 Rack Server offers 8 NVIDIA HGX B300 Tensor Core GPUs to deliver massive accelerated compute performance in a single server, as well as one NVIDIA ConnectX-8 SuperNIC per GPU to scale AI model training across a cluster of dense-GPU servers.

The server is offered in fixed configurations with resources optimized for intensive AI and HPC workloads.

Figure 1 Front and Rear views of Cisco UCS C880A M8 Rack Server

Front View



Rear View

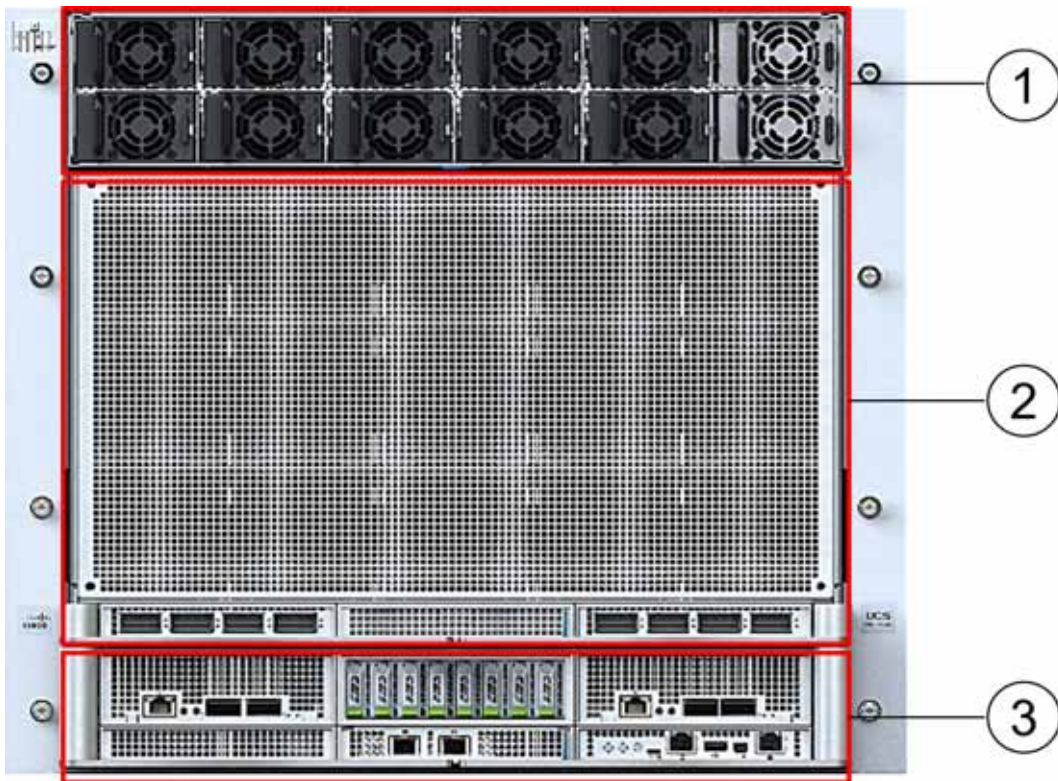


## DETAILED VIEWS

### Cisco UCS C880A M8 Rack Server Front View

Figure 2 is a front view of the Cisco UCS C880A M8 Rack Server.

Figure 2 Cisco UCS C880A M8 Rack Server Front View

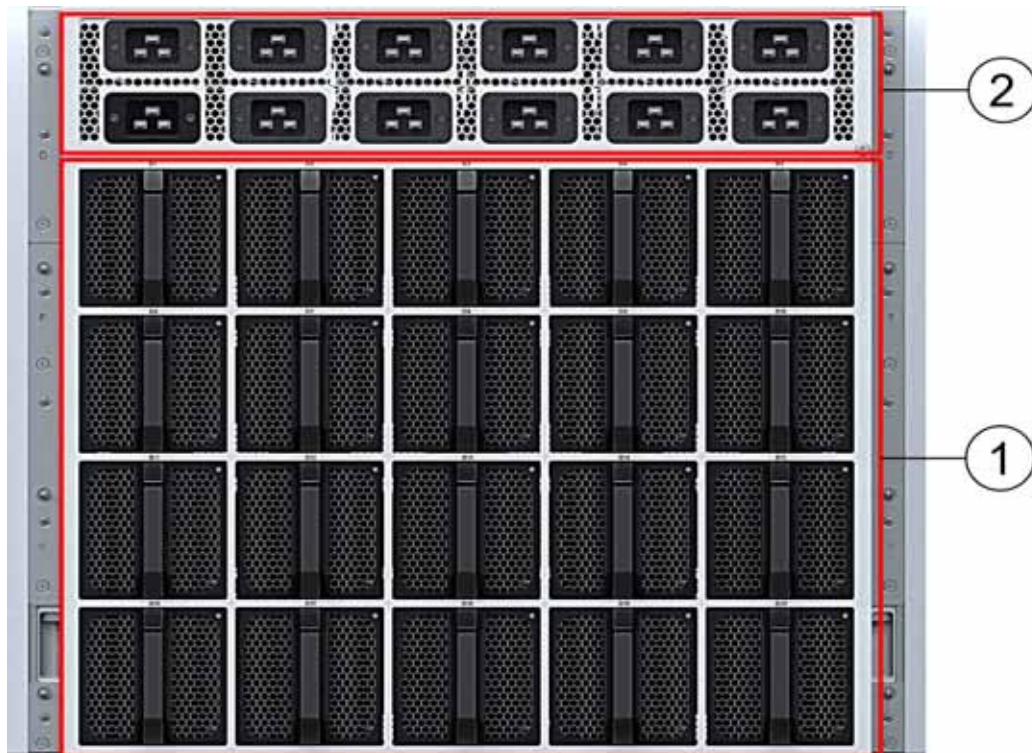


1	Power Supply Units	3	CPU Tray
2	GPU Tray	-	-

## Cisco UCS C880A M8 Rack Server Rear View

*Figure 2* is a front view of the Cisco UCS C880A M8 Rack Server.

Figure 3 Cisco UCS C880A M8 Rack Server Front View

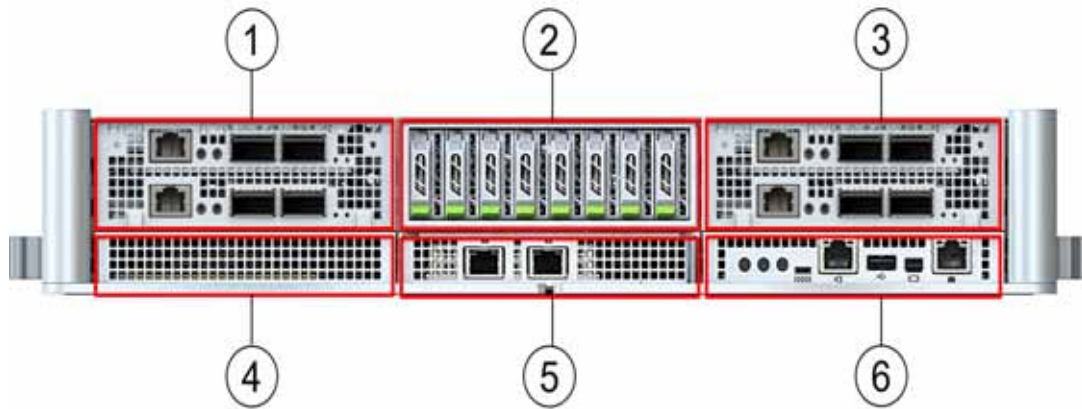


1	System Fans	2	AC In Units
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## CPU Tray

Figure 4 is a front view of the CPU Tray.

Figure 4 CPU Tray

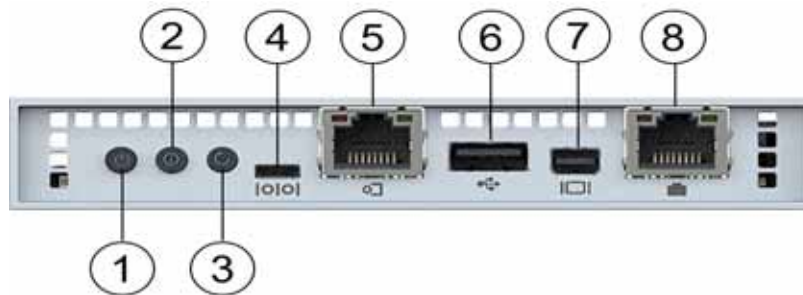


1	2 Slot Riser Cage	4	M.2 drives with RAID (0/1) controller
2	E1.5 Drives	5	OCP Module
3	2 Slot Riser Cage	6	DC-SCM Module

## DC-SCM Module

Figure 5 DC-SCM Module

Figure 5 DC-SCM Module

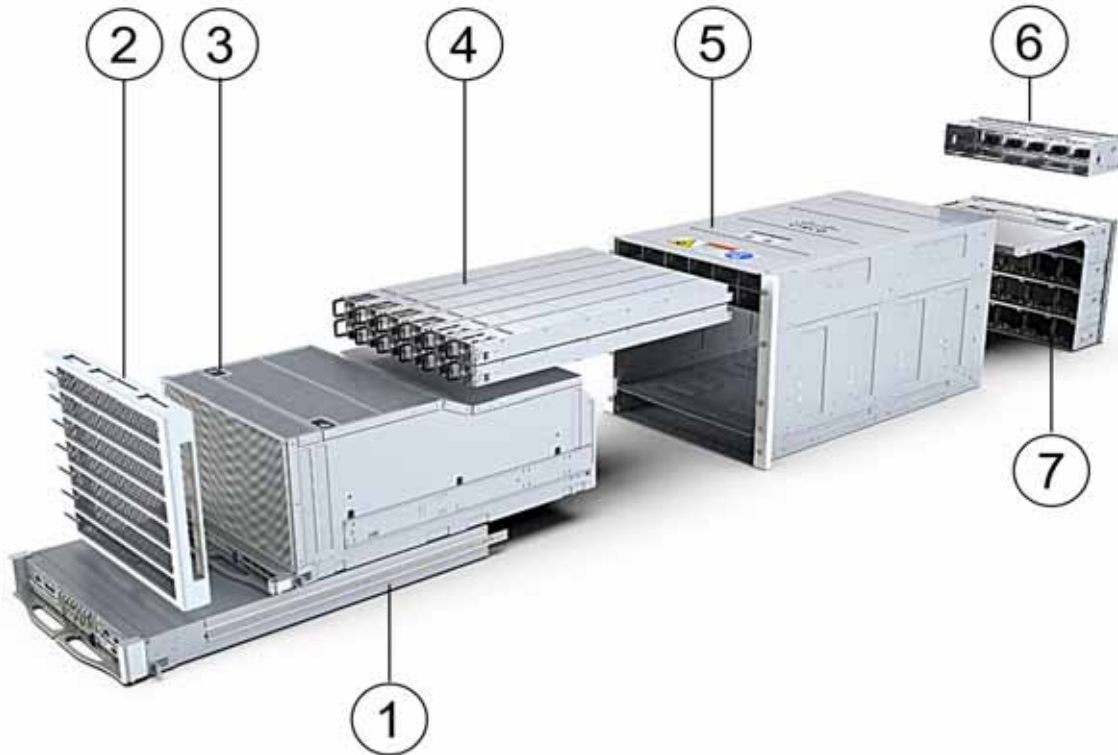


1	Power Button	5	1GbE RJ45 Host baseboard management controller (BMC)
2	ID Button	6	USB 3.2 Gen1x1 Type A Port
3	Reset Button	7	Mini Display Port
4	Micro-USB Debug Port	8	1GbE onboard NIC with RJ45

## Server Components

Figure 6 shows server components

Figure 6 Server components



1	CPU Tray Module	5	Main Chassis
2	Bezel	6	AC In Module
3	GPU Tray Module	7	System Fans (20)
4	Power Supply Units	-	-

## STANDARD CAPABILITIES and FEATURES



NOTE: The UCS C880A M8 Rack Server comes with some components pre-configured/automatically included, while others require the user to make a selection

*Table 1* lists the capabilities and features of the base Cisco UCS C880A M8 Rack Server.

**Table 1 Capabilities and Features**

Capability/Feature	Description
Chassis	10RU Rack Server
GPU	8x NVIDIA HGX B300 NVL8
GPU Memory	A total of 2.3 TB of Capacity
CPU	Two 6th Gen Intel Xeon Processors
Memory	<ul style="list-style-type: none"> <li>■ Up to 32 DDR5-6400 MT/s DIMM slots</li> <li>■ Up to 4 TB of Capacity (32x 128GB DIMMs)</li> </ul>
Networking Cards	<ul style="list-style-type: none"> <li>■ 8x Integrated NVIDIA ConnectX-8 for East-West Network</li> <li>■ 4 PCIe Gen5 x16 FHHL for North-South Network</li> <li>■ 1 OCP TFF Gen3 x8</li> </ul>
LAN	1x OCP 3.0 TFF Gen5 x8 NIC (CPU1) with 2x 10GbE RJ-45 Ethernet
Management	Host baseboard management controller through DC-SCM with RJ45, IPMI 2.0, KVM with Dedicated LAN, Watchdog
Storage	<ul style="list-style-type: none"> <li>■ Up to 2X PCIe3 x4 960 GB M.2 SATA (Boot Device)</li> <li>■ Up to 8x PCIe5 Gen5 x4 E1.S NVMe SSDs (Data Cache)</li> </ul>
System Cooling	20x Hot-swappable (N+1) For System Cooling
Front IO	2 USB 2.0, 1 ID Button, 1 Power Button
Rear IO	1 USB 3.0 A, 1mDP, 1 ID Button, 1 Power Button, 1 USB 2.0 A UART (for debugging), 1 RJ45 (mgmt.), 1 System ID LED/button
Power	12x 50V 3200W (N+N) PSUs
System Power Consumption	Up to 14.3KW
System BIOS	AMI® BIOS

## CONFIGURING the SERVER (User Selectable)

Follow these steps to configure the UCS C880A M8 Rack Server:

- *STEP 1 VERIFY SERVER SKU, page 10*
- *STEP 2 SELECT INPUT POWER CORD(s) (REQUIRED), page 19*
- *STEP 4 SELECT CISCO INTERSIGHT (REQUIRED), page 21*
- *STEP 5 SELECT NVIDIA AIE ESSENTIAL LICENSE (OPTIONAL), page 22*
- *STEP 6 SELECT OPTICS OPTIONS, page 23*

## STEP 1 VERIFY SERVER SKU

**NOTE:** The UCS C880A M8 Rack Server comes with some components pre-configured/automatically included, while others require the user to make a selection.

- **Auto Included:** [Table 3.1](#) to [Table 3.8](#) shows the auto included components with the respective nodes.
- **User Selectable:** [STEP 2](#) to [STEP 6](#), please select the components that you want to include with your selected node.

Table 2 PID of Major Line Bundle (MLB)

Product ID (PID)	Description
UCS-DGPUM8-MLB	UCS M8 Dense GPU Server MLB  This major line bundle (MLB) consists of the GPU server, Intersight, NVIDIA NVAIE S/Ws, and recommended Cisco optics PIDs.

Select one of the product ID (PID) from [Table 3.0](#)

Table 3.0 PIDs of the UCS C880A M8 Rack Server

Product ID (PID)	Description
UCSC-880A-M8-B301 <sup>1</sup>	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem
UCSC-880A-M8-B302 <sup>2</sup>	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3220, 3TB Mem
UCSC-880A-M8-B303 <sup>3</sup>	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x CX-7s, 4TB Mem
UCSC-880A-M8-B304 <sup>4</sup>	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3220, 4TB Mem
UCSC-880A-M8-B305 <sup>5</sup>	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3240, 3TB Mem
UCSC-880A-M8-B306 <sup>6</sup>	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3240, 4TB Mem
UCSC-880A-M8-B307 <sup>7</sup>	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x CX-7s, 2TB Mem
UCSC-880A-M8-B308 <sup>8</sup>	C880A M8 8xB300 GPU, 2x 6767P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem

**Notes:**

1. Refer to the [Table 3.1](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B301](#) server
2. Refer to the [Table 3.2](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B302](#) server
3. Refer to the [Table 3.3](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B303](#) server
4. Refer to the [Table 3.4](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B304](#) server
5. Refer to the [Table 3.5](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B305](#) server
6. Refer to the [Table 3.6](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B306](#) server
7. Refer to the [Table 3.7](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B307](#) server
8. Refer to the [Table 3.8](#) for auto included PIDs/Components with the selection of [UCSC-880A-M8-B308](#) server



**NOTE:** Use the [STEP 2](#) to [STEP 6](#) on the following pages to configure the server with the components that you want to include.

## UCSC-880A-M8-B301

*Table 3.1* lists auto included components with the UCSC-880A-M8-B301 Server Node.

**Table 3.1 Auto Included Components with UCSC-880A-M8-B301**

Product ID (PID)	PID Description	QTY
<b>Base Server</b>		
UCSC-880A-M8-B301	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem	
<b>GPU Sled</b>		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
<b>CPU Sled</b>		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
<b>Memory</b>		
UCSAI-MRX96G2RF5	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	32
<b>Networking Card</b>		
UCSAI-P-N7CS200GF	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
<b>Storage</b>		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
<b>Boot Drive</b>		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
<b>Power Supply</b>		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
<b>DC-SCM Card</b>		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

## UCSC-880A-M8-B302

Table 3.2 lists auto included components with the UCSC-880A-M8-B302 Server Node.

Table 3.2 Auto Included Components with UCSC-880A-M8-B302

Product ID (PID)	PID Description	QTY
<b>Base Server</b>		
UCSC-880A-M8-B302	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3220, 3TB Mem	
<b>GPU Sled</b>		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
<b>CPU Sled</b>		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
<b>Memory</b>		
UCSAI-MRX96G2RF5	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	32
<b>Networking Card</b>		
UCSAI-P-NC3220	UCSAI M8 Nvidia BlueField-3 B3220 DPU 2x200G (crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
<b>Storage</b>		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
<b>Boot Drive</b>		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
<b>Power Supply</b>		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
<b>DC-SCM Card</b>		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

## UCSC-880A-M8-B303

Table 3.3 lists auto included components with the UCSC-880A-M8-B303 Server Node.

Table 3.3 Auto Included Components with UCSC-880A-M8-B303

Product ID (PID)	PID Description	QTY
<b>Base Server</b>		
UCSC-880A-M8-B303	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x CX-7s, 4TB Mem	
<b>GPU Sled</b>		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
<b>CPU Sled</b>		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
<b>Memory</b>		
UCSAI-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	32
<b>Networking Card</b>		
UCSAI-P-N7CS200GF	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
<b>Storage</b>		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
<b>Boot Drive</b>		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
<b>Power Supply</b>		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
<b>DC-SCM Card</b>		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

## UCSC-880A-M8-B304

Table 3.4 lists auto included components with the UCSC-880A-M8-B304 Server Node.

Table 3.4 Auto Included Components with UCSC-880A-M8-B304

Product ID (PID)	PID Description	QTY
<b>Base Server</b>		
UCSC-880A-M8-B304	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3220, 4TB Mem	
<b>GPU Sled</b>		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
<b>CPU Sled</b>		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
<b>Memory</b>		
UCSAI-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	32
<b>Networking Card</b>		
UCSAI-P-NC3220	UCSAI M8 Nvidia BlueField-3 B3220 DPU 2x200G (crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
<b>Storage</b>		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
<b>Boot Drive</b>		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
<b>Power Supply</b>		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
<b>DC-SCM Card</b>		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

## UCSC-880A-M8-B305

Table 3.5 lists auto included components with the UCSC-880A-M8-B305 Server Node.

Table 3.5 Auto Included Components with UCSC-880A-M8-B305

Product ID (PID)	PID Description	QTY
<b>Base Server</b>		
UCSC-880A-M8-B305	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3240, 3TB Mem	
<b>GPU Sled</b>		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
<b>CPU Sled</b>		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
<b>Memory</b>		
UCSAI-MRX96G2RF5	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	32
<b>Networking Card</b>		
UCSAI-P-NC3240	UCSAI M8 Nvidia BlueField-3 B3240 DPU cold-aisle(crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
<b>Storage</b>		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
<b>Boot Drive</b>		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
<b>Power Supply</b>		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
<b>DC-SCM Card</b>		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

## UCSC-880A-M8-B306

Table 3.6 lists auto included components with the UCSC-880A-M8-B306 Server Node.

Table 3.6 Auto Included Components with UCSC-880A-M8-B306

Product ID (PID)	PID Description	QTY
<b>Base Server</b>		
UCSC-880A-M8-B306	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x B3240, 4TB Mem	
<b>GPU Sled</b>		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
<b>CPU Sled</b>		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
<b>Memory</b>		
UCSAI-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	32
<b>Networking Card</b>		
UCSAI-P-NC3240	UCSAI M8 Nvidia BlueField-3 B3240 DPU cold-aisle(crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
<b>Storage</b>		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
<b>Boot Drive</b>		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
<b>Power Supply</b>		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
<b>DC-SCM Card</b>		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

## UCSC-880A-M8-B307

Table 3.7 lists auto included components with the UCSC-880A-M8-B307 Server Node.

Table 3.7 Auto Included Components with UCSC-880A-M8-B307

Product ID (PID)	PID Description	QTY
<b>Base Server</b>		
UCSC-880A-M8-B307	C880A M8 8xB300 GPU, 2x 6776P CPU, 8x CX-8s, 2x CX-7s, 2TB Mem	
<b>GPU Sled</b>		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
<b>CPU Sled</b>		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6767P	Intel GNR 6767P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
<b>Memory</b>		
UCSAI-MRX64G2RE5	64GB DDR5-6400 RDIMM 2Rx4 (16Gb)	32
<b>Networking Card</b>		
UCSAI-P-N7CS200GF	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
<b>Storage</b>		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
<b>Boot Drive</b>		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
<b>Power Supply</b>		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
<b>DC-SCM Card</b>		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

## UCSC-880A-M8-B308

Table 3.8 lists auto included components with the UCSC-880A-M8-B308 Server Node.

Table 3.8 Auto Included Components with UCSC-880A-M8-B308

Product ID (PID)		PID Description	
<b>Base Server</b>			
UCSC-880A-M8-B308		C880A M8 8xB300 GPU, 2x 6767P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem	
<b>GPU Sled</b>			
UCSAI-880A-B3-SLD		UCS C880A M8 GPU SLED B300 NV	
<b>CPU Sled</b>			
UCSAI-880A-CC-SLD		UCS C880A M8 CPU SLED	
UCSAI-CPU-I6776P		Intel GNR 6776P CPU	
UCSAI-880A-HS		Intel GNR Heatsink	
<b>Memory</b>			
UCSAI-MRX96G2RF5		96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	
<b>Networking Card</b>			
UCSAI-P-N7CS200GF		UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	
UCSAI-O-ID10GC		UCSAI M8 OCP INTEL X710 T2L	
<b>Storage</b>			
UCSAI-NVES3T8M1V		3.84TB E1.5 Micron Gen5 1X NVMe	
<b>Boot Drive</b>			
UCSAI-M2-960G		960GB M.2 SATA Micron G2 SSD	
UCSAI-M2-HWRAID		Cisco Boot optimized M.2 Raid controller	
<b>Power Supply</b>			
UCSAI-PSU-3200W		UCSAI M8 PSU 3200W 54V	
<b>DC-SCM Card</b>			
UCSAI-880A-DCSCM		UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	

## STEP 2 SELECT INPUT POWER CORD(S) (REQUIRED)

Select the appropriate power cords option from the [Table 4](#).

Table 4 Available Power Cords

Product ID (PID)	PID Description
CAB-C13-CBN	CABASY,WIRE,JUMPER CORD, 27" L, C13/C14, 10A/250V
CAB-C19-C20-IND	Power Cord C19-C20 India
CAB-SABS-C19-IND	SABS 164-1 to IEC-C19 India
CAB-C19-C20-3M-JP	Power Cord C19-C20, 3M/10ft Japan PSE mark
CAB-AC-16A-AUS	Power Cord, 250VAC, 16A, Australia C19
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU
CAB-9K16A-KOR	Power Cord 250VAC 16A, Korea, Src Plug
NO-POWER-CORD	ECO friendly green option, no power cable will be shipped

**STEP 3 SELECT ADDITIONAL DRIVES (OPTIONAL)**

The Additional drives are listed in [Table 5](#)

Table 5 Additional drives

Product ID (PID)	PID Description
UCSAI-NVES15TM1V=	15.36TB E1.S Micron Gen5 1X NVMe MTFDLCE15T3THA-1BK1JABYY
UCSAI-NVES15TM1VE=	15.36TB E1.S FIPS SED Micron Gen5 MTFDLCE15T3THA-1BK1DFCYY
UCSAI-NVES3T8M1V=	3.84TB E1.S Micron Gen5 1X NVMe MTFDLCE3T8THA-1BK1JABYY
UCSAI-NVES3T8M1VE=	3.84TB E1.S FIPS SED Micron Gen5 1X MTFDLCE3T8THA-1BK1DFCYY
UCSAI-NVES7T6M1V=	7.68TB E1.S Micron Gen5 1X NVMe MTFDLCE7T6THA-1BK1JABYY
UCSAI-NVES7T6M1VE=	7.68TB E1.S FIPS SED Micron Gen5 1X MTFDLCE7T6THA-1BK1DFCYY

## STEP 4 SELECT CISCO INTERSIGHT (REQUIRED)

Cisco Intersight™ is a Software-as-a-Service (SaaS) hybrid cloud operations platform which delivers intelligent automation, observability, and optimization to customers for traditional and cloud-native applications and infrastructure.

Product ID (PID)	
DC-MGT-SAAS	Cisco Intersight SaaS

Select Cisco Intersight option as desired from [Table 6](#)

Table 6 Cisco Intersight SaaS

Product ID (PID)	PID Description
Cisco Intersight - SaaS	
DC-MGT-IS-SAAS-ES	Infrastructure Services PVA - Advantage
DC-MGT-IS-SAAS-AD	Infrastructure Services PVA - Essentials
Cisco Intersight - Private Virtual Appliance	
DC-MGT-IS-PVAPP-ES	Infrastructure Services SaaS/CVA - Advantage
DC-MGT-IS-PVAPP-AD	Infrastructure Services SaaS/CVA - Essentials

**STEP 5 SELECT NVIDIA AIE ESSENTIAL LICENSE (OPTIONAL)**

Table 7 NVIDIA AIE Essential License

Product ID (PID)	PID Description
<b>Software License</b>	
NV-AIE-LIC=	NVIDIA AI Essential Software License Spare(Order QTY 1 only)
<b>Standard License</b>	
NV-AIE-P-5Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,5 Yr
NV-AIE-24X7S-1Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU, 1Y
NV-AIE-P-1Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,1 Yr
NV-AIE-24X7S-3Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU, 3Y
NV-AIE-P-3Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,3 Yr
NV-AIE-24X7S-5Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU, 5Y
NV-AIE-P-5Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,5 Yr
NV-AIE-S-1Y	NVIDIA AI Enterprise Essentials Subscription per GPU, 1 Year
NV-AIE-S-3Y	NVIDIA AI Enterprise Essentials Subscription per GPU, 3 Year
NV-AIE-S-5Y	NVIDIA AI Enterprise Essentials Subscription per GPU, 5 Year
<b>Education</b>	
NV-AIE-EDP-5Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 5 Yr
NV-AIE-24X7EDS-1Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU EDU 1Y
NV-AIE-EDP-1Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 1 Yr
NV-AIE-24X7EDS-3Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU EDU 3Y
NV-AIE-EDP-3Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 3 Yr
NV-AIE-24X7EDS-5Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU EDU 5Y
NV-AIE-EDP-5Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 5 Yr
NV-AIE-EDS-1Y	NVIDIA AIE Essentials Subscription per GPU, EDU, 1 Year
NV-AIE-EDS-3Y	NVIDIA AIE Essentials Subscription per GPU, EDU, 3 Years
NV-AIE-EDS-5Y	NVIDIA AIE Essentials Subscription per GPU, EDU, 5 Years

## STEP 6 SELECT OPTICS OPTIONS

### Choose Transceivers

The recommended Cisco Optics for the server are listed in [Table 8](#).

Table 8 Supported Optic Cables

Product ID (PID)	Description
<b>Optics</b>	
QSFP-200G-SL4	200GBASE SL4 QSFP56 Transceiver, MPO, 30m over OM4 MMF
QSFP-200G-SR4-S	200GBASE SR4 QSFP56 Transceiver, MPO, 100m over OM4 MMF
QSFP-200G-FR4-S	200GBASE FR4 QSFP56 PAM4 1310nm LC Transceiver, 2Km over SMF
QSFP-400G-DR4	400G QSFP112 Transceiver, 400GBASE-DR4, MPO-12,500m parallel
OSFPR-800G-DR8	OSFP w/ Riding Heat, 800GBASE-DR8, SMF dual MPO-12 APC, 500m
<b>Single Mode Patch Cable</b>	
CB-M12-M12-SMF10M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 10M
CB-M12-M12-SMF15M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 15M
CB-M12-M12-SMF1M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 1M
CB-M12-M12-SMF20M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 20M
CB-M12-M12-SMF25M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 25M
CB-M12-M12-SMF2M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 2M
CB-M12-M12-SMF30M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 30M
CB-M12-M12-SMF3M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 3M
CB-M12-M12-SMF5M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 5M
CB-M12-M12-SMF7M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 7M
<b>Multi-mode Patch Cable</b>	
CB-M12-M12-MMF1.5	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 1.5M
CB-M12-M12-MMF10M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 10M
CB-M12-M12-MMF15M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 15M
CB-M12-M12-MMF1M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 1M
CB-M12-M12-MMF20M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 20M
CB-M12-M12-MMF25M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 25M
CB-M12-M12-MMF2M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 2M
CB-M12-M12-MMF30M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 30M
CB-M12-M12-MMF3M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 3M
CB-M12-M12-MMF4M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 4M

Table 8 Supported Optic Cables

Product ID (PID)	Description
CB-M12-M12-MMF5M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 5M
CB-M12-M12-MMF7M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 7M

## SPARE PARTS

This section lists the upgrade and service-related parts for the server. Some of these parts are configured with every server.



**NOTE:** Some spare parts you order may also require accessories for full functionality. The spares and their accessory parts are listed in [Table 9](#).

Table 9 Spare Parts

Product ID (PID)	PID Description
UCSAI-880A-CC-SLD=	UCS C880A M8 CPU SLED
UCSAI-CPU-I6776P=	Intel GNR 6776P CPU
UCSAI-880A-HS=	Intel GNR Heat sync -
UCSAI-880A-B3-SLD=	UCS C880A M8 GPU SLED B300 NV
UCSAI-MRX96G2RF5=	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)
UCSAI-M2-960G=	960GB M.2 SATA Micron G2 SSD
UCSAI-M2-HWRAID=	Cisco Boot optimized M.2 Raid controller
UCSAI-NVES3T8M1V=	3.84TB E1.S Micron Gen5 1X NVMe
UCSAI-P-N7CS200GF=	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)
UCSAI-O-ID10GC=	UCSAI M8 OCP INTEL X710 T2L
UCSAI-880A-DCSCM=	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU
UCSAI-PSU-3200W=	UCSAI M8 PSU 3200W 54V
UCSAI-MR128G2RG5=	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)
UCSAI-MRX64G2RE5=	64GB DDR5-6400 RDIMM 2Rx4 (16Gb)
UCSAI-P-NC3220=	UCSAI M8 Nvidia BlueField-3 B3220 DPU 2x200G (crypto)
UCSAI-P-NC3240=	UCSAI M8 Nvidia BlueField-3 B3240 DPU cold-aisle(crypto)
UCSAI-880A-BZL=	UCS C880A M8 Security Bezel
UCSAI-RAIL=	Ball Bearing Rail Kit for C880A M8 rack server
UCSAI-NVES15TM1V=	15.36TB E1.S Micron Gen5 1X NVMe MTFDLCE15T3THA-1BK1JABYY
UCSAI-NVES15TM1VE=	15.36TB E1.S FIPS SED Micron Gen5 MTFDLCE15T3THA-1BK1DFCYY
UCSAI-NVES3T8M1V=	3.84TB E1.S Micron Gen5 1X NVMe MTFDLCE3T8THA-1BK1JABYY
UCSAI-NVES3T8M1VE=	3.84TB E1.S FIPS SED Micron Gen5 1X MTFDLCE3T8THA-1BK1DFCYY

Table 9 Spare Parts *(continued)*

Product ID (PID)	PID Description
UCSAI-NVES7T6M1V=	7.68TB E1.S Micron Gen5 1X NVMe MTFDLCE7T6THA-1BK1JABYY
UCSAI-NVES7T6M1VE=	7.68TB E1.S FIPS SED Micron Gen5 1X MTFDLCE7T6THA-1BK1DFCYY

## Manufacturer Part Numbers (MPN)

Below tables lists the Manufacturer Part Numbers for the NVIDIA NICs supported with Cisco UCS C880A M8 Rack Server

### Network Cards

Table 10 Network Cards

Network Card	MPN	Legacy MPN	Vendor
NVIDIA BlueField-3 B3220 (Crypto)	900-9D3B6-00CV-AA0		NVIDIA
NVIDIA ConnectX-7 200GbE (crypto)	900-9X7AH-0079-DTZ	MCX755106AC-HEAT	NVIDIA
NVIDIA BlueField-3 B3240 for cold-aisle (Crypto)	900-9D3B6-00CN-PA0		NVIDIA

### RAID Controller

Table 11 RAID controller

Raid Controller	MPN	Vendor
UCS-M2-NVRAID	800-52109-01	Broadcom

### Drives

Table 12 Drives

Drives	MPN	Vendor
UCSAI-NVES3T8M1V=	MTFDLCE3T8THA-1BK1DABYY	Micron
UCSAI-NVES7T6M1V=	MTFDLCE7T6THG-1BP1JABYY	Micron
UCSAI-NVES15TM1V=	MTFDLCE15T3THG-1BP1JABYY	Micron
UCSAI-NVES3T8M1VE=	MTFDLCE3T8THG-1BP1DFCYY	Micron
UCSAI-NVES7T6M1VE=	MTFDLCE7T6THG-1BP1DFCYY	Micron
UCSAI-NVES15TM1VE=	MTFDLCE15T3THG-1BP1DFCYY	Micron

# TECHNICAL SPECIFICATIONS

## Dimensions and Weight

Table 13 Cisco UCS C880A M8 Rack Server Dimensions and Weight

Parameter	Value
Height	441 mm (17.36 in)
Width	447 mm (17.6 in)
Depth	800 mm (31.5 in)
Weight	164kg (362lbs)

## Environmental Specifications



**NOTE:** The upper operating temperature limit and rate of change may be limited by the type and number of options installed. The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

Table 14 Cisco UCS C880A M8 Rack Server Environmental Specifications

Parameter	Value
Temperature range <sup>1</sup>	
Operating Temperature/Relative Humidity Range	5° C to 35° C (45° F to 95° F) / 5% to 85% (Non-condensing)
Storage Temperature/Relative Humidity Range	-40° C to 70° C (-40° F to 158° F) / 5% to 90% (Non-condensing)

**Notes:**

1. All temperature ratings shown are for sea level. An altitude derating of 1° C per 304.8 m (1.8° F per 1,000 ft) to 3048 m (10,000 ft) is applicable. No direct sunlight allowed. Maximum rate of change is 20° C/hr (36° F/hr).

## System Rating

Table 15 Cisco UCS C880A M8 Rack Server System rating

Parameter	Value
Total Input	12 (N+N) x 3200 W Redundant Titanium grade power supply supported.
For System	200-277 Vac, 50-60Hz, 16A per PSU



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