Spec Sheet

Cisco UCS XE150c M8 Compute Node

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OVERVIEW

Cisco Unified Edge brings together computing, storage, routing, switching, and security into a single configurable solution to help IT organizations simplify the deployment, operations, and lifecycle management of edge infrastructure at global scale. Cisco Unified Edge is a fully integrated, edge-optimized, AI-ready, and SaaS managed platform, engineered to deliver a superior user experience with unprecedented visibility, consistency, and control for a host of edge use cases.

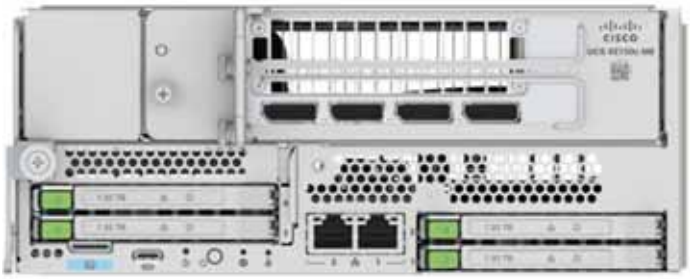
Cisco Unified Edge is a modular edge platform, with a 3RU, short-depth, multi-mountable chassis with features to operate in extended temperature range (5°C to 45°C), maintain a quiet acoustic profile (40s dBA at 25°C and 20% PWM), and offer protection against high particulate environments, allowing deployments in a wide range of physical spaces.

The Cisco UCS XE150c M8 is a family of 2RU, half-width compute nodes; up to two Cisco UCS XE150c M8 compute nodes can be housed inside a Cisco UCS XE9305 chassis. It delivers enterprise class, performance, versatility and density but in a compact edge-optimized form factor. Powered by the Intel® Xeon® 6 SoC processors with Performance-Cores and available in two riser configurations (“Storage-Optimized” and “IO-Optimized”), the Cisco UCS XE150c M8 offers industry-leading adaptability at the edge, supporting a variety of PCIe accelerators (such as GPUs) and adaptors, and integrated networking with two front-panel 1/10 Gbps NICs and two rear-facing 25 Gbps NICs connecting to the in-chassis network mid-plane. This versatility enables the Cisco UCS XE150c M8 as a building block in the deployment of a wide range of workloads including bare-metal servers, virtualization, containers, and AI/ML.

NOTE: All options listed in the spec Sheet are compatible with Intersight Managed Mode configurations. For firmware requirements for all components in Intersight Managed Mode see Supported Systems.

Figure 1 Front View of Cisco UCS XE150c M8 Compute Node

Four Drive Configuration



Three Drive Configuration

COMPUTE NODE STANDARD CAPABILITIES and FEATURES

Table 1 lists the capabilities and features of the base Cisco UCS XE150c M8 Compute Node. Details about how to configure the compute node for a listed feature or capability (for example, GPUs number of processors, drives, or amount of memory) are provided in CONFIGURING THE CISCO UCS XE150C M8 COMPUTE NODE on page 6

Table 1 Capabilities and Features

Capability/Feature	Description
Form Factor and Chassis	■ 2RU-high and half-width compute node. ■ The Cisco UCS XE150c M8 compute node mounts in a Cisco UCS XE9305 chassis.
CPU	One Intel® Xeon® 6 SoC with P-Cores Processor, with 20 or 32 physical cores.
Memory	■ 8 total DDR5 DIMM Slots, at up to 6400 MT/s RDIMMs ■ Up to 1TB of main memory with eight 128GB DDR5-6400 DIMMs.
GPU	■ XE150c M8 compute node supports FHFL GPUs
Networking	■ Two rear-facing integrated 25 Gbps uplink ports connecting via chassis mid-plane to the embedded switches on both Cisco UCS XE chassis management controllers. ■ Two front-facing integrated 10 Gbps RJ45 host ports.
Storage	There are two types of flash storage options simultaneously available in the Cisco UCS XE150c M8 compute node: ■ Internal M.2 SSDs: Up to two M.2 SSDs protected by hardware RAID 1 ■ Front-Facing E3.S NVMe Drives: • Storage-Optimized” configuration: up to four E3.S NVMe drive slots • IO-Optimized” configuration: up to three E3.S NVMe drive slots
PCIe Adapter	■ 1 HHHL/FHHL PCIe slot (with 3-drive riser) ■ 1 PCIe Gen5 x16, dual-wide, FHFL slot (450W) for GPUs and other peripherals
Front Panel Interfaces	■ One KVM connector ■ One USB-C port
Power subsystem	Power is supplied from the Cisco UCS XE9305 chassis power supplies. The Cisco UCS XE150c M8 Compute Node consumes a maximum of 425W.
Fans	Integrated in the Cisco UCS XE9305 chassis.
Integrated management processor	■ The built-in Cisco Integrated Management Controller enables monitoring of Cisco UCS XE150c M8 Compute Node inventory, health, and system event logs. ■ ASPEED AST2600

Table 1 Capabilities and Features *(continued)*

Capability/Feature	Description
Firmware standards	■ UEFI Spec 2.9 ■ ACPI 6.5 ■ SMBIOS Ver 3.7
Front Indicators	■ Power button and indicator ■ System activity indicator ■ Location button and indicator
Management	■ **Cisco Intersight software** (SaaS, Virtual Appliance and Private Virtual Appliance)[1]
Security	■ The server supports an optional trusted platform module (TPM). Additional features include a secure boot FPGA and ACT2 anti-counterfeit provisions.

Notes:

1. Virtual Appliance and Private Virtual Appliance available post FCS.

CONFIGURING THE CISCO UCS XE150C M8 COMPUTE NODE

Follow these steps to configure the Cisco UCS XE150c M8 Compute Node:

STEP 1 CHOOSE BASE CISCO UCS XE150c M8 COMPUTE NODE SKU

Top Level ordering product ID (PID) of the Cisco UCS XE150c M8 Compute Node as shown in ***Table 2***

Table 2 Top level ordering PID

Product ID (PID)	Description
UCSXE-M8-MLB	Unified Edge Chassis and Node MLB

Select the product ID (PID) of the Cisco UCS XE150c M8 Compute Node as shown in ***Table 3***.

NOTE:

- The CPU core count is part of the SKU and cannot be changed. Choose nodes based on the desired CPU core count and the number of sleds.
- For UCSXE-150C-M8-20, UCSXE-150C-M8-32 (non-stand alone nodes): These are required selections, multi-select, with a minimum of 1 and a maximum of 2 total compute nodes per chassis.

Table 3 PID of the Base Cisco UCS XE150c M8 Compute Node

Product ID (PID)	Description
UCSXE-150C-M8-20	Cisco UCS XE130c M8 20-Core 1U Compute Node w/o peripherals (ordered as a UCS XE9305 chassis option)
UCSXE-150C-M8-32	Cisco UCS XE130c M8 32-Core 1U Compute Node w/o peripherals (ordered as a UCS XE9305 chassis option)
UCSXE-150C-M8-20-U	Cisco UCS XE130c M8 20-Core 1U Compute Node w/o peripherals (ordered standalone)
UCSXE-150C-M8-32-U	Cisco UCS XE130c M8 32-Core 1U Compute Node w/o peripherals (ordered standalone)

A base Cisco UCS XE150c M8 Compute Node ordered in ***Table 3*** does not include any components or options. They must be selected during product ordering.

Please follow the steps on the following pages to order components such as the following, which are required in a functional compute node:

- GPU
- Memory
- Risers
- Drives
- TPM

STEP 2 CHOOSE AI INTENT (REQUIRED)

Select AI Intent

The available AI Intent options are listed in ***Table 4***

NOTE: For stand-alone (-U) compute nodes, a required AI Intent must be selected to define the primary use case.

Table 4 Available AI Intent

GPU Product ID (PID)	PID Description
COMPUTE-AI	Compute Artificial Intelligence Use Case
COMPUTE-OTHER	Compute Other Use Case

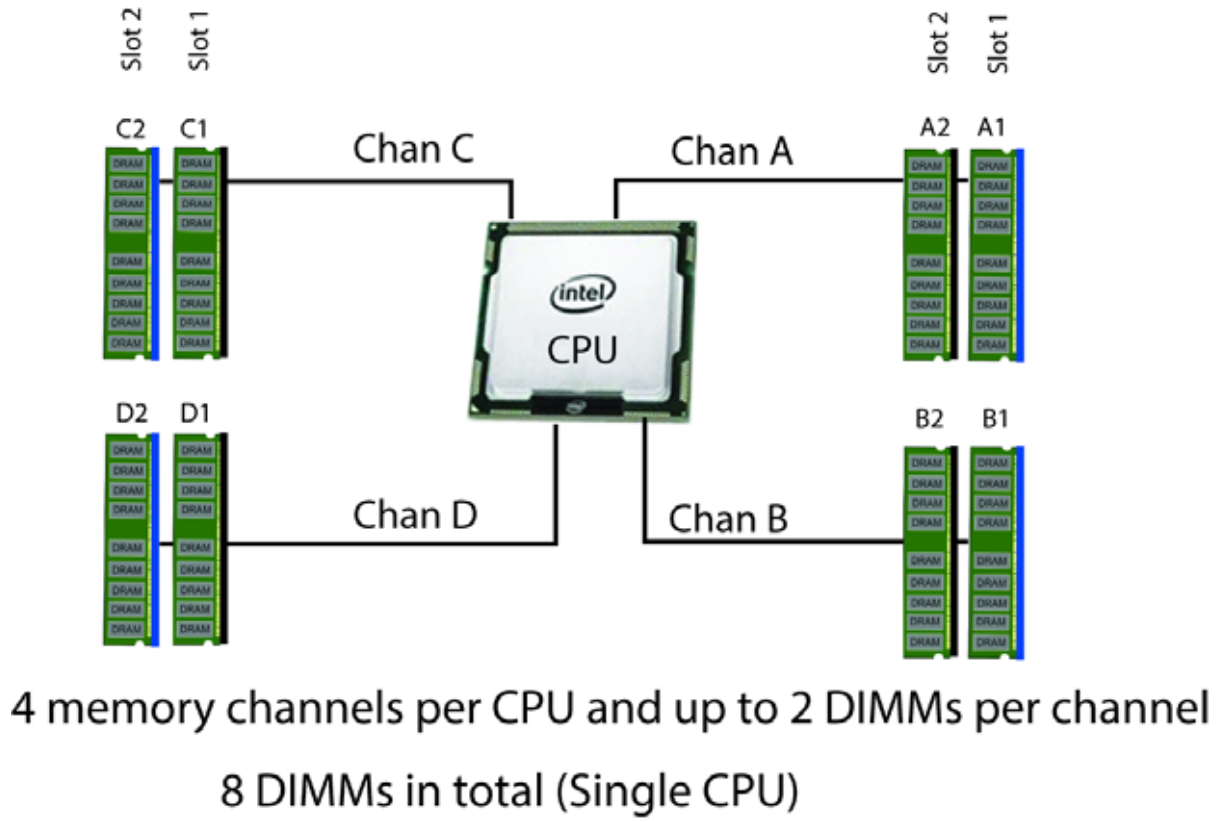
STEP 3 SELECT MEMORY (REQUIRED)

The ***Table 5*** below describes the main memory DIMM features supported on the server.

Table 5 Server Main Memory Features

Memory server technologies	Description
	DIMM
Intel® Xeon® CPU generation	Intel® Xeon® 6 SoC with P-Cores Processor
DDR5 memory clock speed	Intel® Xeon® 6 SoC CPU: Up to 5600 MT/s 1DPC
Operational voltage	1.1 Volts
DRAM fab density	16Gb and 24Gb
Memory type	RDIMM (Registered DDR5 DIMM)
Memory DRAM DIMM organization	Four memory DIMM channels per CPU; up to 2 DIMMs Per Channel
Maximum number of DRAM DIMM per server	8 (1-Socket)
DRAM DIMM Densities and Ranks	16GB 1Rx8, 32GB 1Rx4, 64GB 2Rx4, 96GB 2Rx4, 128GB 2Rx4
Maximum system memory capacity	1TB (8x128GB)

Figure 2 XE150c M8 Memory Organization Block Diagram



Select DIMMs

Select the memory configuration and whether or not you want the memory mirroring option. The available memory DIMMs and mirroring option are listed in ***Table 6***.

NOTE:

- When memory mirroring is enabled, the memory subsystem simultaneously writes identical data to two channels. If a memory read from one of the channels returns incorrect data due to an uncorrectable memory error, the system automatically retrieves the data from the other channel. A transient or soft error in one channel does not affect the mirrored data, and operation continues unless there is a simultaneous error in exactly the same location on a DIMM and its mirrored DIMM. Memory mirroring reduces the amount of memory available to the operating system by 50% because only one of the two populated channels provides data.
- When paired with Intel® Xeon® 6 SoC CPUs, all memory DIMMs must be Cisco DDR5-6400 memory PIDs, although the memory will operate at the maximum speed of the Intel® Xeon® 6 SoC CPUs memory controller, up to 5600 MT/s.

Table 6 Memory Options

Product ID (PID)	PID Description	Ranks/DIMM
DDR5-6400 MT/s Cisco Memory PIDs list[1]		
UCSXE-MRX16G1RE5	16GB RDIMM 1Rx8 1.1Volts (16Gb)	1
UCSXE-MRX32G1RE5	32GB RDIMM 1Rx4 1.1Volts (16Gb)	1
UCSXE-MRX64G2RE5	64GB RDIMM 2Rx4 1.1Volts (16Gb)	2
UCSXE-MRX96G2RF5	96GB RDIMM 2Rx4 1.1Volts (24Gb)	2
UCSXE-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	2
Memory Mirroring Option		
N01-MMIRRORD	Memory mirroring option	
Accessories/spare included with Memory configuration: ■ UCS-DDR5-BLK[2] is auto included for the unpopulated DIMM slots		

Notes:

1. Memory will operate at the maximum speed of the Intel® Xeon® 6 SoC CPUs memory controller, up to 5600 MT/s. Check the ***Table 7*** for the CPU highest clock speed.
2. Any empty DIMM slot must be populated with a DIMM blank to maintain proper cooling airflow.

Table 7 Integrated Intel® Xeon® 6 Scalable CPUs

CPU Number (PID)	Cores (C)	Clock Freq (GHz)	Power (W)	Highest DDR5 DIMM Clock (MT/s)
6543P-B	32	2.00	160	5600
6513P-B	20	2.00	130	5600
6503P-B	12	2.00	110	4800

Memory configurations and mixing rules

- **Golden Rule:** Memory on every CPU socket shall be configured identically. Unbalanced populations are unsupported. Mixing different DIMM densities within the channel or across the channel is not supported
- For full details on supported memory configuration, see the **UCS XE150c M8 Memory Guide**.

STEP 4 CHOOSE GPUs (OPTIONAL)

Select GPU

The available Compute node GPU options are listed in ***Table 8***

NOTE:

- GPU selection is optional, with a maximum of 1 GPU per compute node.
- Selecting a GPU will require the necessary NVIDIA AI Enterprise (NVAIE) software license. For a complete list of supported GPUs, please refer to the Hardware and Software Compatibility List (HCL)

Table 8 Available GPU Card

GPU Product ID (PID)	PID Description	Included Cable	Cable Description
UCSXE-GPU-L40S	NVIDIA L40S: 350W, 48GB, 2-slot FHFL GPU	CBL-12V2X6-150M8	PCIe Gen5 Power Cable with 12V-2x6 Connector for UCS XE150c
UCSXE-GPU-RTXP4500	Nvidia RTX Pro 4500 GPU 160W 32GB Gen5 FHFL 1-slot	CBL-12V2X6-150M8	PCIe Gen5 Power Cable with 12V-2x6 Connector for UCS XE150c
UCSXE-GPU-RTXP6000	NVIDIA RTX Pro 6000: 600W, 96GB, 2-Slot FHFL GPU	CBL-12V2X6-150M8	PCIe Gen5 Power Cable with 12V-2x6 Connector for UCS XE150c

GPU Configuration Rules

- GPU selection is optional, with a maximum of 1 GPU per compute node.
- Selecting a GPU will require the necessary NVIDIA AI Enterprise (NVAIE) software license. For a complete list of supported GPUs, please refer to the Hardware and Software Compatibility List (HCL)

STEP 5 SELECT M.2 BOOT RAID CONTROLLER and SATA SSDs (OPTIONAL)

- **Select Cisco M.2 drives:** Order two matching M.2 drives. This connector accepts the boot-optimized RAID controller (see ***Table 10***). Each boot-optimized RAID controller can accommodate two M.2 drives shown in ***Table 9***.

NOTE:

- Each boot-optimized RAID controller can accommodate two M.2 drives shown in ***Table 9***. The boot-optimized RAID controller plugs into the motherboard.
- It is recommended that M.2 drives be used as boot-only devices.
- M.2 drives support UEFI boot mode only; legacy boot mode is not supported.
- If M.2 drives are selected, a minimum of 2 drives are required. Drives must be selected in quantities of 0 or 2 (QTY 1 is not allowed). Mixing of different M.2 SATA SSD capacities is not allowed within a single compute node.
- M.2 drives are optional as E3.S NVMe drives can also be used for booting

Table 9 M.2 Drives

Product ID (PID)	PID Description
UCSXE-M2-240G	240GB 2.5in M.2 SATA Micron G2 SSD
UCSXE-M2-480G	480GB 2.5in M.2 SATA Micron G2 SSD
UCSXE-M2-960G	960GB 2.5in M.2 SATA Micron G2 SSD
UCSXE-M2240OA1V	240GB M.2 Boot Solidigm S4520 SATA 1X SSD
UCSXE-M2480OA1V	480GB M.2 Boot Solidigm S4520 SATA 1X SSD

- **Cisco 6GB/s SATA Boot-Optimized M.2 RAID Controller (included):** Boot-Optimized RAID controller (UCSX-M2I-HWRD-FPS) for hardware RAID across two SATA M.2 storage modules. The Boot-Optimized RAID controller plugs into the motherboard and the M.2 SATA drives plug into the Boot-Optimized RAID controller.

NOTE:

- The UCSXE-M2-HWRD2 is auto included with the server configuration if M.2 drives are selected.
- The UCSXE-M2-HWRD2 controller supports RAID 1 and JBOD mode is only available with M.2 SATA SSDs listed in ***Table 9***.
- Cisco Intersight is supported for configuring of volumes and monitoring of the controller and installed SATA M.2 drives
- Hot-plug replacement is not supported. The compute node must be powered off to replace.

Table 10 M.2 RAID Controller

Product ID (PID)	PID Description
UCSXE-M2-HWRD2	M.2 RAID Controller for UCS XE-Series Compute Nodes

STEP 6 SELECT RISERS (REQUIRED)

The riser PIDs are listed in ***Table 11***.

Table 11 PIDs of the Risers

Product ID (PID)	Description	Approved Configurations
Storage Riser		
UCSXE-1U-E3S-2L	Left E3.S 2-Drive Riser Assembly for UCS XE9305 Chassis (4-drive back plane)	When the **UCSXE-1U-E3S-1**L storage riser is included in the server configuration, the **UCSXE-1U-PCI-L** IO riser is also required
UCSXE-1U-E3S-1L	Left E3.S 1-Drive Riser Assembly for UCS XE9305 Chassis (3-drive back plane)	
IO Riser (Note: If this selected then PCIE Adapter can not be selected)		
UCSXE-1U-PCI-L	Left PCIe Riser for UCS XE9305 Chassis	When the **UCSXE-1U-PCI-L** IO riser is chosen for the server configuration, the **UCSXE-1U-E3S-1L** storage riser must also be selected

STEP 7 SELECT DRIVES (OPTIONAL)

The standard disk drive features are:

- E3.S 1 NVMe Drives
- Hot-pluggable
- Drives come mounted in sleds

Select Drives

The available drives listed ***Table 12***

NOTE:

- E3.S drives are optional if M.2 boot drives are selected.
- If M.2 boot drives are NOT selected, a minimum of 1 E3.S drive is required.
- The maximum number of E3.S drives is 4 for If the UCSXE-1U-E3S-2L riser is selected.
- If the UCSXE-1U-PCI-L (Left PCIe Riser) is selected, the maximum number of E3.S drives is 3.

Table 12 Available E3.S 1T NVMe Drives

Product ID (PID)	PID Description	Speed	Capacity
UCSXE-NVE11T6K1P	1.6TB E3.S1T KCD8XPJE HgPerf HgEnd Gen5 3X NVMe (SIE SCEF)	3X	1.6 TB
UCSXE-NVE13T2K1P	3.2TB E3.S1T KCD8XPJE HgPerf HgEnd Gen5 3X NVMe (SIE SCEF)	3X	3.2 TB
UCSXE-NVE16T4K1P	6.4TB E3.S1T KCD8XPJE HgPerf HgEnd Gen5 3X NVMe (SIE SCEF)	3X	6.4 TB
UCSXE-NVE112T8K1P	12.8TB E3.S1T KCD8XPJE HgPerf HgEnd Gen5 3X NVMe (SIE SCEF)	3X	12.8 TB
UCSXE-NVE11T9K1V	1.9TB E3.S1T KCD8XPJE HgPerf MedEnd Gen5 1X NVMe (SIE SCEF)	1X	1.9 TB
UCSXE-NVE13T8K1V	3.8TB E3.S1T KCD8XPJE HgPerf MedEnd Gen5 1X NVMe (SIE SCEF)	1X	3.8 TB
UCSXE-NVE17T6K1V	7.6TB E3.S1T KCD8XPJE HgPerf MedEnd Gen5 1X NVMe (SIE SCEF)	1X	7.6 TB
UCSXE-NVE115T3K1V	15.3TB E3.S1T KCD8XPJE HgPerf MedEnd Gen5 1X NVMe (SIE SCEF)	1X	15.3 TB
Accessories/spare included with drives ■ UCSXE-E3S1T-F is included for any unpopulated front storage device bays.			

STEP 8 SELECT OPTION CARD(s) (OPTIONAL)

For up-to-date server compatibility, please check the Hardware and Software compatibility list (HCL) at https://ucshcltool.cloudapps.cisco.com/public/.

The standard PCIe card offerings are:

- Network Interface Cards (NICs)
- Host Bus Adapter (HBA)

Select Option Cards

The available option cards are listed in ***Table 13***.

NOTE:

- PCIe Adapter selection is optional, with a maximum of 1 PCIe Adapter per compute node.
- Selection of a PCIe Adapter requires the UCSXE-1U-PCI-L (Left PCIe Riser) to be selected.

Table 13 Available PCIe Option Cards

Product ID (PID)	PID Description	Location	Card Size[1]
Network Interface Cards (NICs)			
1GbE NICs			
UCSXE-P-IQ1GC	Cisco-Intel I710-T4L 4x1GBASE-T NIC	Left PCIe riser (S2)	HHHL, SS
10GbE NICs			
UCSXE-P-ID10GC	Cisco-Intel X710T2LG 2x10GBE RJ45 PCIe NIC	Left PCIe riser (S2)	HHHL, SS
UCSXE-P-IQ10GC	Cisco-Intel X710T4LG 4x10GBE RJ45 PCIe NIC	Left PCIe riser (S2)	HHHL, SS
HBA			
UCSXE-P-Q7D64GF	Cisco-QLogic QLE2872 2x 16/32/64GFC Gen 7 Enhanced PCIe HBA	Left PCIe riser (S2)	HHHL, SS

Notes:

1. HHHL = half-height, half-length; FHHL = full-height, half-length; SS = single-slot; DS = double-slot. SFF = small form factor.

STEP 9 CHOOSE OPTIONAL TRUSTED PLATFORM MODULE

Trusted Platform Module (TPM) is a computer chip or microcontroller that can securely store artifacts used to authenticate the platform or Cisco UCS XE150c M8 Compute Node. These artifacts can include passwords, certificates, or encryption keys. A TPM can also be used to store platform measurements that help ensure that the platform remains trustworthy. Authentication (ensuring that the platform can prove that it is what it claims to be) and attestation (a process helping to prove that a platform is trustworthy and has not been breached) are necessary steps to ensure safer computing in all environments.

Table 14 Available TPM Option

Product ID (PID)	Description
UCSXE-TPM-002D	TPM 2.0 TCG FIPS140-2 CC+ Cert M7 Intel MSW2022 Compliant

NOTE:

- TPM selection is optional, with a maximum of 1 TPM per compute node.
- The TPM module used in this system conforms to TPM v2.0 as defined by the Trusted Computing Group (TCG).
- TPM installation is supported after-factory. However, a TPM installs with a one-way screw and cannot be replaced, upgraded, or moved to another compute node. If a Cisco UCS XE150c M8 Compute Node with a TPM is returned, the replacement unit must be ordered with a new TPM. If there is no existing TPM in the Cisco UCS XE150c M8 Compute Node, you can install a TPM 2.0. Refer to the following document for Installation location and instructions:

STEP 10 SELECT OPERATING SYSTEM AND THIRD PARTY SOFTWARE

NOTE:

- See this link for operating system guidance: https://ucshcltool.cloudapps.cisco.com/public/

Table 15 Operating System

Product ID (PID)	PID Description
Microsoft Windows Server	
MSWS-22-ST16C	Windows Server 2022 Standard (16 Cores/2 VMs)
MSWS-22-ST16C-RM	Windows Server 2022 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-22-STA2C	Windows Server 2022 Standard - Additional 2 Cores
MSWS-22-ST16C-NS	Windows Server 2022 Standard (16 Cores/2 VMs) - No Cisco SVC
MSWS-22-ST16C-RM	Windows Server 2022 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-22-STA2C-NS	Windows Server 2022 Stan - Additional 2 Cores - No Cisco SVC
MSWS-22-DC16C	Windows Server 2022 Data Center (16 Cores/Unlimited VMs)
MSWS-22-DC16C-RM	Windows Server 2022 DC (16Cores/Unlim VM) Rec Media DVD Only
MSWS-22-DCA2C	Windows Server 2022 Data Center - Additional 2 Cores
MSWS-22-DC16C-NS	Windows Server 2022 DC (16 Cores/Unlim VMs) - No Cisco SVC
MSWS-22-DC16C-RM	Windows Server 2022 DC (16Cores/Unlim VM) Rec Media DVD Only
MSWS-22-DCA2C-NS	Windows Server 2022 DC - Additional 2 Cores - No Cisco SVC
MSWS-25-ST16C	Windows Server 2025 Standard (16 Cores/2 VMs)
MSWS-25-ST16C-RM	Windows Server 2025 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-25-STA2C	Windows Server 2025 Standard - Additional 2 Cores
MSWS-25-STA4C	Windows Server 2025 Standard - Additional 4 Cores
MSWS-25-STA16C	Windows Server 2025 Standard - Additional 16 Cores
MSWS-25-ST16C-NS	Windows Server 2025 Standard (16 Cores/2 VMs) - No Cisco SVC
MSWS-25-ST16C-RM	Windows Server 2025 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-25-STA2C-NS	Windows Server 2025 Stan - Additional 2 Cores - No Cisco SVC
MSWS-25-STA4C-NS	Windows Server 2025 Stan - Additional 4 Cores- No Cisco SVC
MSWS-25-STA16C-NS	Windows Server 2025 Stand - Additional 16 Cores- No Cisco SVC
MSWS-25-ST24C	Windows Server 2025 Standard (24 Cores)

Table 15 Operating System *(continued)*

Product ID (PID)	PID Description
MSWS-25-ST16C-RM	Windows Server 2025 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-25-STA2C	Windows Server 2025 Standard - Additional 2 Cores
MSWS-25-STA4C	Windows Server 2025 Standard - Additional 4 Cores
MSWS-25-STA16C	Windows Server 2025 Standard - Additional 16 Cores
MSWS-25-ST24C-NS	Windows Server 2025 Standard (24 Cores) - No Cisco SVC
MSWS-25-ST16C-RM	Windows Server 2025 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-25-STA2C-NS	Windows Server 2025 Stan - Additional 2 Cores - No Cisco SVC
MSWS-25-STA4C-NS	Windows Server 2025 Stan - Additional 4 Cores- No Cisco SVC
MSWS-25-STA16C-NS	Windows Server 2025 Stand - Additional 16 Cores- No Cisco SVC
MSWS-25-DC16C	Windows Server 2025 Data Center (16 Cores/Unlimited VMs)
MSWS-25-DC16C-RM	Windows Server 2025 DC (16Cores/Unlim VM) Rec Media DVD Only
MSWS-25-DCA2C	Windows Server 2025 Data Center - Additional 2 Cores
MSWS-25-DCA4C	Windows Server 2025 Data Center - Additional 4 Cores
MSWS-25-DCA16C	Windows Server 2025 Data Center - Additional 16 Cores
MSWS-25-DC16C-NS	Windows Server 2025 DC (16 Cores/Unlim VMs) - No Cisco SVC
MSWS-25-DC16C-RM	Windows Server 2025 DC (16Cores/Unlim VM) Rec Media DVD Only
MSWS-25-DCA2C-NS	Windows Server 2025 DC - Additional 2 Cores - No Cisco SVC
MSWS-25-DCA4C-NS	Windows Server 2025 DC - Additional 4 Cores- No Cisco SVC
MSWS-25-DCA16C-NS	Windows Server 2025 DC - Additional 16 Cores- No Cisco SVC
MSWS-25-DC24C	Windows Server 2025 Data Center (24 Cores)
MSWS-25-DC16C-RM	Windows Server 2025 DC (16Cores/Unlim VM) Rec Media DVD Only
MSWS-25-DCA2C	Windows Server 2025 Data Center - Additional 2 Cores
MSWS-25-DCA4C	Windows Server 2025 Data Center - Additional 4 Cores
MSWS-25-DCA16C	Windows Server 2025 Data Center - Additional 16 Cores
MSWS-25-DC24C-NS	Windows Server 2025 DC (24 Cores) - No Cisco SVC
MSWS-25-DC16C-RM	Windows Server 2025 DC (16Cores/Unlim VM) Rec Media DVD Only
MSWS-25-DCA2C-NS	Windows Server 2025 DC - Additional 2 Cores - No Cisco SVC
MSWS-25-DCA4C-NS	Windows Server 2025 DC - Additional 4 Cores- No Cisco SVC
MSWS-25-DCA16C-NS	Windows Server 2025 DC - Additional 16 Cores- No Cisco SVC

Table 15 Operating System *(continued)*

Product ID (PID)	PID Description
Red Hat	
RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req
RHEL-2S-RS-1A	RHEL Resilent Storage (1-2 CPU); 1-Yr Support Reqd
RHEL-2S-HA-1A	RHEL High Availability (1-2 CPU); 1-Yr Support Reqd
RHEL-2S2V-3A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 3-Yr Support Req
RHEL-2S-RS-3A	RHEL Resilent Storage (1-2 CPU); 3-Yr Support Reqd
RHEL-2S-HA-3A	RHEL High Availability (1-2 CPU); 3-Yr Support Reqd
RHEL-2S2V-5A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 5-Yr Support Req
RHEL-2S-RS-5A	RHEL Resilent Storage (1-2 CPU); 5-Yr Support Reqd
RHEL-2S-HA-5A	RHEL High Availability (1-2 CPU); 5-Yr Support Reqd
RHEL-VDC-2SUV-1A	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 1 Yr Supp Req
RHEL-2S-RS-1A	RHEL Resilent Storage (1-2 CPU); 1-Yr Support Reqd
RHEL-2S-HA-1A	RHEL High Availability (1-2 CPU); 1-Yr Support Reqd
RHEL-VDC-2SUV-3A	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 3 Yr Supp Req
RHEL-2S-RS-3A	RHEL Resilent Storage (1-2 CPU); 3-Yr Support Reqd
RHEL-2S-HA-3A	RHEL High Availability (1-2 CPU); 3-Yr Support Reqd
RHEL-VDC-2SUV-5A	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 5 Yr Supp Req
RHEL-2S-RS-5A	RHEL Resilent Storage (1-2 CPU); 5-Yr Support Reqd
RHEL-2S-HA-5A	RHEL High Availability (1-2 CPU); 5-Yr Support Reqd
Red Hat Ent Linux/ High Avail/ Res Strg/ Scal	
RHEL-2S2V-1S	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 1-Yr SnS
RHEL-2S2V-1YR	Red Hat Enterprise Linux (1-2 CPU,1-2 VN);Premium 24x7 - 1Yr
RHEL-2S2V-3S	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 3-Yr SnS
RHEL-2S2V-3YR	Red Hat Enterprise Linux (1-2 CPU,1-2 VN);Premium 24x7 - 3Yr
RHEL-2S-HA-1S	RHEL High Availability (1-2 CPU); Premium 1-yr SnS
RHEL-2S-HA-1YR	RHEL High Availability (1-2 CPU); Premium 24x7 - 1 Year
RHEL-2S-HA-3S	RHEL High Availability (1-2 CPU); Premium 3-yr SnS
RHEL-2S-HA-3YR	RHEL High Availability (1-2 CPU); Premium 24x7 - 3 Year
RHEL-2S-RS-1S	RHEL Resilent Storage (1-2 CPU); Premium 1-yr SnS

Table 15 Operating System *(continued)*

Product ID (PID)	PID Description
RHEL-2S-RS-1YR	RHEL Resilent Storage (1-2 CPU); Premium 24x7 - 1 Year
RHEL-2S-RS-3S	RHEL Resilent Storage (1-2 CPU); Premium 3-yr SnS
RHEL-2S-RS-3YR	RHEL Resilent Storage (1-2 CPU); Premium 24x7 - 3 Year
RHEL-VDC-2SUV-1S	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 1 Yr SnS Reqd
RHEL-VDC-2SUV1YR	RHEL for Virtual Datacenters Premium 24x7 - 1 Yr SnS
RHEL-VDC-2SUV-3S	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 3 Yr SnS Reqd
RHEL-VDC-2SUV3YR	RHEL for Virtual Datacenters Premium 24x7 - 3 Yr SnS
Red Hat SAP	
RHEL-SAP-2S2V-1S	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Prem 1-Yr SnS
RHEL-SAP-2S2V1YR	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Premium 24x7 - 1-Yr
RHEL-SAP-2S2V-3S	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Prem 3-Yr SnS
RHEL-SAP-2S2V3YR	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Premium 24x7 - 3-Yr
RHEL-SAPSP-3S	RHEL SAP Solutions Premium - License with 3 Years of SnS
RHEL-SAPSS-3S	RHEL SAP Solutions Standard - License with 3 Years of SnS
SUSE	
SLES-2S2V-1S	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 1-Yr SnS
SLES-2S2V-1YR	SUSE Linux Entp Svr (1-2 CPU,1-2 VM); Prio SnS 24x7 - 1 Year
SLES-2S2V-3S	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 3-Yr SnS
SLES-2S2V-3YR	SUSE Linux Entp Svr (1-2 CPU,1-2 VM); Prio SnS 24x7 - 3 Year
SLES-2S2V-5S	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 5-Yr SnS
SLES-2S2V-5YR	SUSE Linux Entp Svr (1-2 CPU,1-2 VM); Prio SnS 24x7 - 5 Year
SLES-2S-HA-1S	SUSE Linux High Availability Ext (1-2 CPU); 1Yr SnS
SLES-2S-HA-1YR	SUSE Linux High Avail Ext (1-2 CPU); Inherited SnS - 1 Year
SLES-2S-HA-3S	SUSE Linux High Availability Ext (1-2 CPU); 3Yr SnS
SLES-2S-HA-3YR	SUSE Linux High Avail Ext (1-2 CPU); Inherited SnS - 3 Year
SLES-2S-HA-5S	SUSE Linux High Availability Ext (1-2 CPU); 5Yr SnS
SLES-2S-HA-5YR	SUSE Linux High Avail Ext (1-2 CPU); Inherited SnS - 1 Year
SLES-2S-GC-1S	SUSE Linux GEO Clustering for HA (1-2 CPU); 1Yr Sns
SLES-2S-GC-1YR	SUSE Linux Geo Clustering (1-2 CPU); Inherited SnS - 1 Year

Table 15 Operating System *(continued)*

Product ID (PID)	PID Description
SLES-2S-GC-3S	SUSE Linux GEO Clustering for HA (1-2 CPU); 3Yr SnS
SLES-2S-GC-3YR	SUSE Linux Geo Clustering (1-2 CPU); Inherited SnS - 3 Year
SLES-2S-GC-5S	SUSE Linux GEO Clustering for HA (1-2 CPU); 5Yr SnS
SLES-2S-GC-5YR	SUSE Linux Geo Clustering (1-2 CPU); Inherited SnS - 5 Year
SLES-2S-LP-1S	SUSE Linux Live Patching Add-on (1-2 CPU); 1Yr SnS Required
SLES-2S-LP-1YR	SUSE Linux Live Patching Add-on (1-2 CPU); Inherited SnS 1 Yr
SLES-2S-LP-3S	SUSE Linux Live Patching Add-on (1-2 CPU); 3Yr SnS Required
SLES-2S-LP-3YR	SUSE Linux Live Patching Add-on (1-2 CPU); Inherited SnS 3 Yr
SLES-2SUVM-1S	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 1Y SnS
SLES-2SUVM-1YR	SUSE Linux Entp Svr (1-2 CPU,Unl VM) LP; Prio SnS 24x7 - 1Y
SLES-2SUVM-3S	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 3Y SnS
SLES-2SUVM-3YR	SUSE Linux Entp Svr (1-2 CPU,Unl VM) LP; Prio SnS 24x7 - 3Y
SLES-2SUVM-5S	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 5Y SnS
SLES-2SUVM-5YR	SUSE Linux Entp Svr (1-2 CPU,Unl VM) LP; Prio SnS 24x7 - 5Y
SLES-2S2V-1A	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 1-Yr Support Reqd
SLES-2S2V-3A	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 3-Yr Support Reqd
SLES-2S2V-5A	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 5-Yr Support Reqd
SLES-2S-LP-1A	SUSE Linux Live Patching Add-on (1-2 CPU); 1Yr Support Req
SLES-2S-LP-3A	SUSE Linux Live Patching Add-on (1-2 CPU); 3Yr Support Req
SLES-2SUVM-1A	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; D1Y Supp Req
SLES-2SUVM-3A	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; D3Y Supp Req
SLES-2SUVM-5A	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; D5Y Supp Req
SLES and SAP	
SLES-SAP-2S2V-1S	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 1-Yr SnS
SLES-SAP-2S2V1YR	SUSE for SAP Apps; (1-2 CPU,1-2 VM); Prio SnS 24x7 - 1 Year
SLES-SAP-2S2V-3S	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 3-Yr SnS
SLES-SAP-2S2V3YR	SUSE for SAP Apps; (1-2 CPU,1-2 VM); Prio SnS 24x7 - 3 Year
SLES-SAP-2S2V-5S	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 5-Yr SnS
SLES-SAP-2S2V5YR	SUSE for SAP Apps; (1-2 CPU,1-2 VM); Prio SnS 24x7 - 5 Year

Table 15 Operating System *(continued)*

Product ID (PID)	PID Description
SLES-SAP2SUVM-1S	SLES for SAP Apps (1-2 CPU, Unl VM) LP; Priority 3Y SnS
SLES-SAP2SUVM-1YR	SUSE for SAP Apps; (1-2 CPU,Unl VM) LP; Prio SnS 24x7 - 1Y
SLES-SAP2SUVM-3S	SLES for SAP Apps (1-2 CPU, Unl VM) LP; Priority 3Y SnS
SLES-SAP2SUVM-3YR	SUSE for SAP Apps; (1-2 CPU,Unl VM) LP; Prio SnS 24x7 - 3Y
SLES-SAP2SUVM-5S	SLES for SAP Apps (1-2 CPU, Unl VM) LP; Priority 3Y SnS
SLES-SAP2SUVM-5YR	SUSE for SAP Apps; (1-2 CPU,Unl VM) LP; Prio SnS 24x7 - 5Y
SLES-SAP-2S2V-1A	SLES for SAP Apps (1-2 CPU, 1-2 VM); 1-Yr Support Reqd
SLES-SAP-2S2V-3A	SLES for SAP Apps (1-2 CPU, 1-2 VM); 3-Yr Support Reqd
SLES-SAP-2S2V-5A	SLES for SAP Apps (1-2 CPU, 1-2 VM); 5-Yr Support Reqd
SLES-SAP2SUVM-1A	SLES for SAP Apps w/ HA (1-2 CPU, Unl VM) LP; 1Y Supp Reqd
SLES-SAP2SUVM-3A	SLES for SAP Apps w/ HA (1-2 CPU, Unl VM) LP; 3Y Supp Reqd
SLES-SAP2SUVM-5A	SLES for SAP Apps w/ HA (1-2 CPU, Unl VM) LP; 5Y Supp Reqd

Table 16 3rd Party Software-RedHat

Product ID (PID)	PID Description
Red Hat OpenShift	
RH-OKE-B-P1S	OpenShift Kubernetes Eng(BM),Prem 1Y SnS Req(1-2 CPU-64core)
RH-OKE-B-P1Y	OpenShiftKubernetesEngine(BM),Prem1YSnS(1-2 CPUupto64cores)
RH-OKE-B-P3S	OpenShiftKubernetesEngine(BM),Prem 3YSnS Req(1-2 CPU-64core)
RH-OKE-B-P3Y	OpenShiftKubernetesEngine(BM),Prem 3YSnS(1-2CPUupto64cores)
RH-OCP-B-P1S	OpenShiftContainerPlatform(BM),Prem 1YSnS Req(1-2CPU-64core)
RH-OCP-B-P1Y	OpenShiftContainerPlatform(BM),Prem1YrSnS(1-2CPUupto64cores)
RH-OCP-B-P3S	OpenShiftContainerPlatform(BM),Prem 3YSnS Req(1-2CPU-64core)
RH-OCP-B-P3Y	OpenShiftContainerPlatform(BM),Prem3YSnS(1-2CPUupto64cores)
RH-OPP-B-P1S	OpenShift Platform Plus(BM),Prem 1Y SnS Req(1-2 CPU-64cores)
RH-OPP-B-P1Y	OpenShiftPlatformPlus(BM),Prem1YSnS(1-2CPU upto 64cores)
RH-OPP-B-P3S	OpenShift Platform Plus(BM),Prem 3Y SnS Req(1-2 CPU-64cores)
RH-OPP-B-P3Y	OpenShiftPlatformPlus(BM),Prem3YSnS(1-2CPU upto 64cores)
RH-OPPDF-B-P1S	OPP and ODF Adv (BM), Prem 1Y SnS Req (1-2CPU upto 64cores)

Table 16 3rd Party Software-RedHat

Product ID (PID)	PID Description
RH-OPPDF-B-P1Y	OPP and ODF Adv (BM), Prem 1-Yr SnS (1-2CPU upto 64cores)
RH-OPPDF-B-P3S	OPP and ODF Adv (BM), Prem 3Y SnS Req (1-2CPU upto 64cores)
RH-OPPDF-B-P3Y	OPP and ODF Adv (BM), Prem 3-Yr SnS (1-2CPU upto 64cores)
RH-ACM-B-P1S	AdvancedClusterMgmt for OKE(BM),Prem 1YSnSReq(1-2CPU-64core)
RH-ACM-B-P1Y	AdvancedClusterMgmtforOKE(BM),Prem1YSnS(1-2CPU upto 64cores)
RH-ACM-B-P3S	AdvancedClusterMgmt for OKE(BM),Prem 3YSnSReq(1-2CPU-64core)
RH-ACM-B-P3Y	AdvancedClusterMgmtforOKE(BM),Prem3YSnS(1-2CPU upto 64cores)
RH-OAI-B-P1S	OpenShift AI (BM), Prem 1Y SnS Req (1-2 CPU upto 64 cores)
RH-OAI-B-P1Y	OpenShift AI (BM), Prem 1-Yr SnS (1-2 CPU upto 64 cores)
RH-OAI-B-P3S	OpenShift AI (BM), Prem 3Y SnS Req (1-2 CPU upto 64 cores)
RH-OAI-B-P3Y	OpenShift AI (BM), Prem 3-Yr SnS (1-2 CPU upto 64 cores)
RH-OCP-V-P1S	OpenShift Container Platform,Prem 1Y SnS Req(2core or 4vCPU)
RH-OCP-V-P1Y	OpenShiftContainerPlatform,Prem1YSnS(2 cores or 4vCPUs)
RH-OCP-V-P3S	OpenShift Container Platform,Prem 3Y SnS Req(2core or 4vCPU)
RH-OCP-V-P3Y	OpenShiftContainerPlatform,Prem3YSnS(2cores or 4vCPUs)
RH-OPP-V-P1S	OpenShift Platform Plus,Prem 1Y SnS Req(2 cores or 4vCPUs)
RH-OPP-V-P1Y	OpenShift Platform Plus, Prem 1Y SnS (2 cores or 4vCPUs)
RH-OPP-V-P3S	OpenShift Platform Plus,Prem 3Y SnS Req(2 cores or 4vCPUs)
RH-OPP-V-P3Y	OpenShift Platform Plus, Prem 3Y SnS (2 cores or 4vCPUs)
RH-OPPDF-V-P1S	OpenShiftPlatformPlus & ODFAdv,Prem 1YSnSReq(2core or 4vCPU)
RH-OPPDF-V-P1Y	OpenShiftPlatformPlus and ODFAdv,Prem1YSnS(2cores or 4vCPUs)
RH-OPPDF-V-P3S	OpenShiftPlatformPlus & ODFAdv,Prem 3YSnSReq(2core or 4vCPU)
RH-OPPDF-V-P3Y	OpenShiftPlatformPlus and ODFAdv,Prem3YSnS(2cores or 4vCPUs)
RH-OAI-V-P1S	OpenShift AI, Prem 1Y SnS Req (2 cores or 4vCPUs)
RH-OAI-V-P1Y	OpenShift AI, Prem 1-Yr SnS (2 cores or 4vCPUs)
RH-OAI-V-P3S	OpenShift AI, Prem 3Y SnS Req (2 cores or 4vCPUs)
RH-OAI-V-P3Y	OpenShift AI, Prem 3-Yr SnS (2 cores or 4vCPUs)
Red Hat Ansible	
RH-AAP-1UCS-P1S	Ansible Automation Platform,Prem 1Y SnS Req(One UCS Server)

Table 16 3rd Party Software-RedHat

Product ID (PID)	PID Description
RH-AAP-1UCS-P1Y	Ansible Automation Platform, Prem 1Y SnS (One UCS Server)
RH-AAP-1UCS-P3S	Ansible Automation Platform,Prem 3Y SnS Req(One UCS Server)
RH-AAP-1UCS-P3Y	Ansible Automation Platform, Prem 3Y SnS (One UCS Server)
RH-AAP-100EP-P1S	Ansible Automation Platform,Prem 1Y SnS Req(100 End Points)
RH-AAP-100EP-P1Y	Ansible Automation Platform, Prem 1Y Sns (100 End Points)
RH-AAP-100EP-P3S	Ansible Automation Platform,Prem 3Y SnS Req(100 End Points)
RH-AAP-100EP-P3Y	Ansible Automation Platform, Prem 3Y SnS (100 End Points)

STEP 11 SELECT INTERSIGHT

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-XE	Cisco Intersight for UCSXE Promotion

Select Cisco Intersight subscription option as desired from *Table 17*

Table 17 Cisco Intersight

Product ID (PID)	PID Description
Cisco XE Intersight	
DC-MGT-XEPRO-PV-A	Cisco Intersight for UCSXE Promotion SAAS/CVA - Advantage
DC-MGT-XEPRO-PV-E	Cisco Intersight for UCSXE Promotion SAAS/CVA - Essentials
DC-MGT-XEPRO-SA-A	Cisco Intersight for UCSXE Promotion PVA - Advantage
DC-MGT-XEPRO-SA-E	Cisco Intersight for UCSXE Promotion PVA - Essentials

Select Cisco Intersight support option as desired from *Table 18*

Table 18 Cisco Intersight Support

Product ID (PID)	PID Description
Cisco Intersight Support	
SVS-SSTCS-DCMGMT[1]	Solution Support for DC Mgmnt
SVS-L1DCS-INTER[1]	Cisco Support Standard for INTERSIGHT
SVS-L2DCS-INTER[1]	Cisco Support Signature for INTERSIGHT
SVS-DCM-SUPT-BAS	Cisco Support Basic for DCM

Notes:

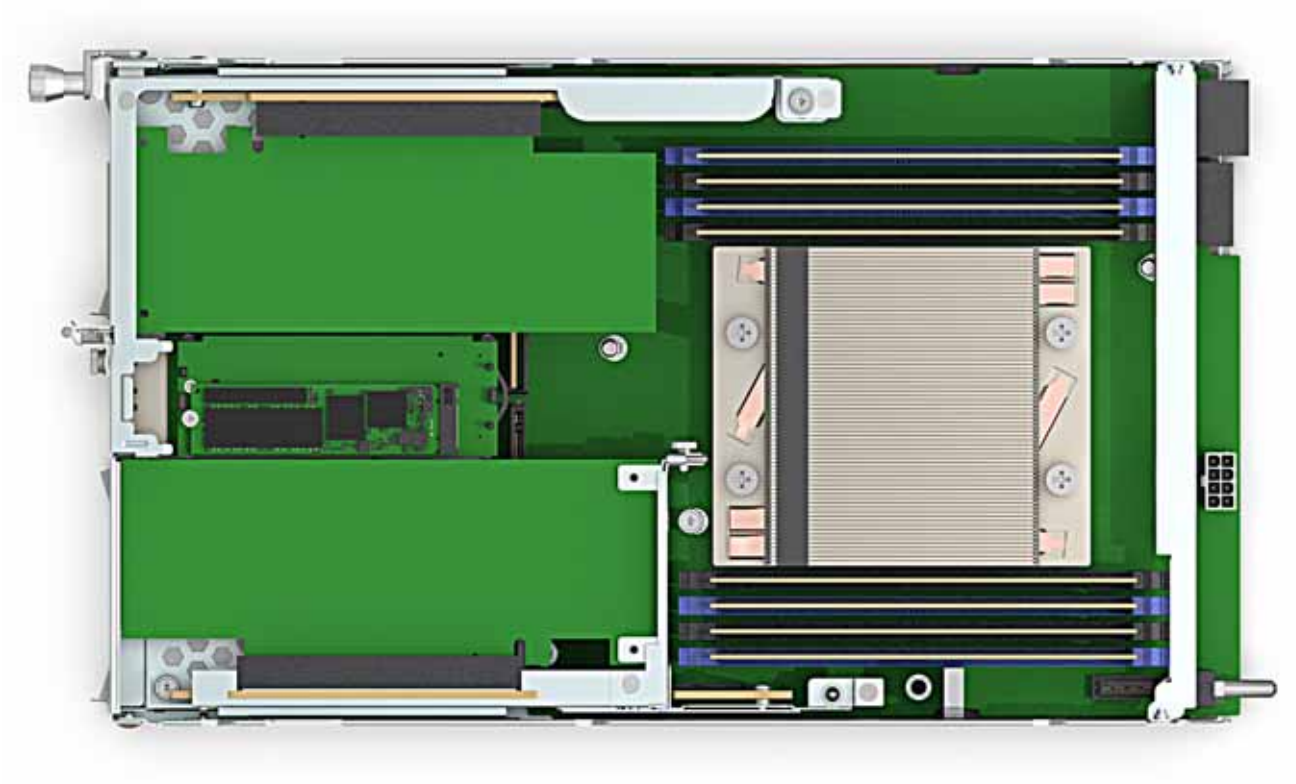
1. Smart account (SA) required

SUPPLIMENT MATERIAL

System Board

A top view of the Cisco UCS XE150c M8 Compute Node system board is shown in ***Figure 3***.

Figure 3 Cisco UCS XE150c M8 Compute Node System Board



TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 19 Cisco UCS XE150c M8 Compute Node Dimensions and Weight

Parameter	Value
Height	1.61 in. (41 mm)
Width	8.19 in. (208 mm)
Depth	13.86 in. (352 mm)
Weight	■ Minimally configured node weight: 6.61 lbs. (3.0 kg) ■ Fully configured compute node weight: 8.82 lbs. (4.0 kg)

Environmental Specifications

Table 20 Cisco UCS XE150c M8 Compute Node Environmental Specifications

Parameter	Value
Operating temperature	23° to 113°F (-5° to 45°C)
Non-operating temperature	-40° to 185°F (-40° to 85°C)
Operating humidity	5% to 85% noncondensing
Non-operating humidity	5% to 93% noncondensing
Operating altitude	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1°C per 300m
Non-operating altitude	40,000 ft (12,000m)

System Requirements

Table 21 System Requirements

Parameter	Value
Cisco Unified Edge Chassis	Cisco UCS XE9305 Chassis
Cisco Intersight	Intersight Managed Mode (minimum Essentials license per server)

Power Specifications

For configuration-specific power specifications, use the Cisco UCS Power Calculator at:

http://ucspowercalc.cisco.com

NOTE: The Cisco UCS XE150c Server Node has a power cap of 1300 Watts for all combinations of components (CPUs, DIMMs, drives, and so on). Also, the ambient temperature must be less than 35 ºC (95 ºF).

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