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#### Compute

UCS C-Series HyperFlex Nexus 9348 Intersight

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## Compute Featured Products

**Featured Products** 

Portfolio

# Cisco HyperFlex HX-Series

Next-Generation, Multicloud Hyperconvergence is Here Unify Compute, Storage, and Networking with Cloud Management





#### I HX-E-220M5SX

Hybrid Node	Intel Xeon Scalable	Max 28 Cores per Socket	2 CPU Sockets	Max 3 TB Memory	24 Memory Slots
Max	Max	10	VMware	HXDP	
800 GB	14.4 TB	2.5 inch	vSphere	Edge	
Cache	Capacity	SFF Slots	6 & 6.5	Software	

#### HXAF240C-M5SX

All-Flash Node	Intel Xeon Scalable	Max 28 Cores per Socket	2 CPU Sockets	Max 3 TB Memory	24 Memory Slots
Max 1.6 TB Cache	Max 87.4 TB Capacity	24 + 2 2.5 inch SFF Slots	VMware vSphere 6 & 6.5	Microsoft Hyper-V	HXDP Std/Ent Software

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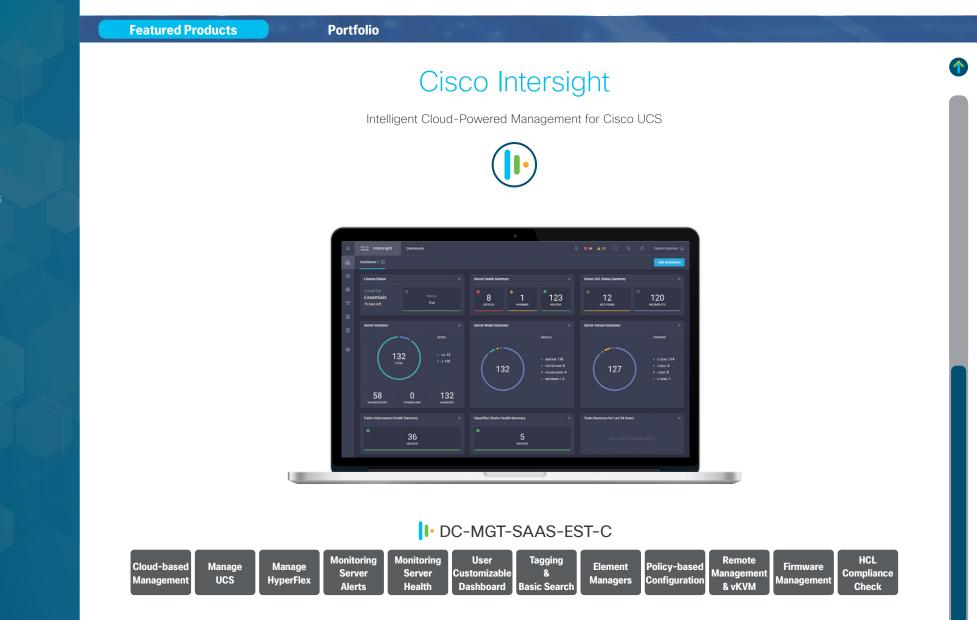
Security

Connect Switches Wireless

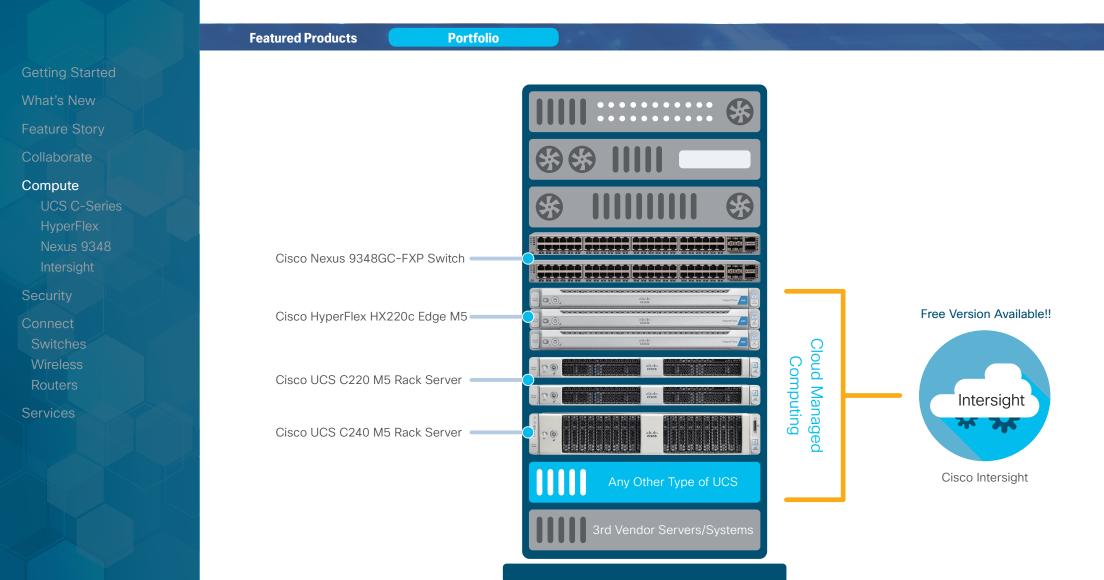
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## Compute Featured Products



## Compute Portfolio



## Compute - Servers Cisco UCS C-Series Rack Servers

WEB

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- HyperFlex
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## Superior Multilayered Protection

**Overview** 

The Cisco UCS C-Series Rack Servers provide a rack-server entry point to Cisco UCS. With world-record-setting performance for 2- and 4-socket servers, Cisco UCS C-Series Rack Servers can integrate into Cisco UCS through a single set of cables. Cisco UCS C-Series Rack Servers provide a wide range of I/O, memory, internal disk, and solid-state disk (SSD) drive capacity, enabling you to easily match servers to workloads.

**Positioning Map** 

**Platform Spec** 

#### Highlights: Cisco UCS C-Series M5 Rack Servers

Designed to provide your computing infrastructure now and into the future, Cisco UCS C-Series M5 Rack Servers give you the benefits of the latest Intel Xeon Scalable processors:

- More Cores to accelerate parallelized virtualized and bare-metal workloads
- Larger Memory Capacity for better performance and larger in-memory databases
- Higher Memory Bandwidth to accelerate the flow of information to and from the CPU
- Ready for Intel 3D XPoint nonvolatile memory
- Up to 6 PCIe GPU Accelerators for a smooth user experience in virtual desktop environments
- Cloud Managed by Cisco Intersight



**SmartPlay Rack Paks** 

## Compute - Servers Cisco UCS C-Series Rack Servers





All models support Cisco UCS Virtual Interface Card (VIC) in PCle or MLOM form factor



## Compute - Servers Cisco UCS C-Series Rack Servers

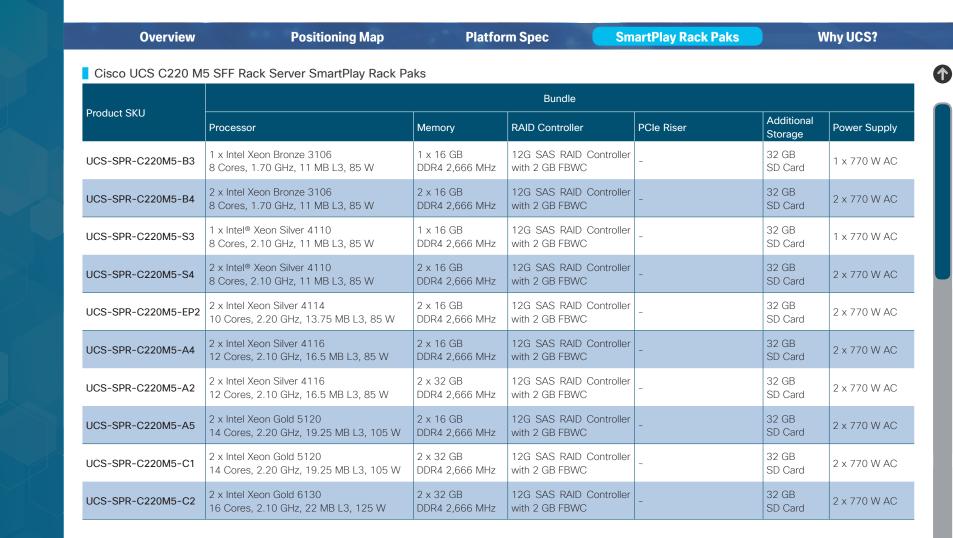


#### Compute

UCS C-Series

Overview		Ро	sitionir	ng Maj	<b>b</b>	Platform Spec SmartPlay Rack I		CPaks Why UCS?		CS?							
Cisco UCS C-Series	s M5 Ra	ick Servers	;														
		Processor		Me	emory			Inter	nal Storage	e		PCle	Gen3		Po	rts	
Product SKU			Max			2.5	3.5		Max Inter	nal Storage				mLOM			Rack
	Sock- ets	Processor Supported	Cores per Socket	Slots	Max Memory	inch SFF Slots	inch LFF Slots	HDD	SSD	Self- Encrypted HDD/SDD	PCle NVMe	Slots	Max GPUs	Slots	10GB-T	Mgmt GE	Mount
UCSC-C220-M5L	2	Intel Xeon Scalable	28	24	12 TB	-	4	48 TB	7.6 TB	24 TB	6.4 TB	2	1	1	2	1	1 RU
UCSC-C220-M5SX	2	Intel Xeon Scalable	28	24	12 TB	10	-	24 TB	76 TB	38 TB	15.2 TB	2	1	1	2	1	1 RU
UCSC-C220-M5SN	2	Intel Xeon Scalable	28	24	12 TB	10	-	-	-	-	76 TB	2	1	1	2	1	1 RU
UCSC-C240-M5S	2	Intel Xeon Scalable	28	24	12 TB	8 + 2	-	24 TB	76 TB	38 TB	30.4 TB	6	2	1	2	1	2 RU
UCSC-C240-M5L	2	Intel Xeon Scalable	28	24	12 TB	2	12	148.8 TB	38 TB	79.6 TB	15.2 TB	6	2	1	2	1	2 RU
UCSC-C240-M5SX	2	Intel Xeon Scalable	28	24	12 TB	24 + 2	-	62.4 TB	197.6 TB	98.8 TB	15.2 TB	6	2	1	2	1	2 RU
UCSC-C240-M5SN	2	Intel Xeon Scalable	28	24	12 TB	24 + 2	-	38.4 TB	121.6 TB	60.8 TB	76 TB	6	2	1	2	1	2 RU

## Compute - Servers Cisco UCS C-Series Rack Servers



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## Compute - Servers Cisco UCS C-Series Rack Servers



	Overview	Positioning Map	Platfor	rm Spec Sma	nartPlay Rack Paks	W	Vhy UCS?
etting Started	Cisco UCS C240 M	15 SFF Rack Server SmartPlay Rack Pa	aks				
'hat's New				Bundle			
eature Story	Product SKU	Processor	Memory	RAID Controller	PCle Riser	Additional Storage	Power Supply
ollaborate	UCS-SPR-C240M5-B2	1 x Intel Xeon Bronze 3106 8 Cores, 1.70 GHz, 11 MB L3, 85 W	1 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1B 3 PCle Slots (x8, x8, x8)	32 GB SD Card	1 x 1,050 W AC
ompute UCS C-Series	UCS-SPR-C240M5-S4	1 x Intel® Xeon Silver 4110 8 Cores, 2.10 GHz, 11 MB L3, 85 W	1 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1B 3 PCle Slots (x8, x8, x8)	32 GB SD Card	2 x 1,050 W AC
HyperFlex Nexus 9348	UCS-SPR-C240M5-S5		2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1A 3 PCIe Slots (x8, x16, x8)	32 GB SD Card	2 x 1,050 W AC
Intersight	UCS-SPR-C240M5-S6		2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1A 3 PCIe Slots (x8, x16, x8)	32 GB SD Card	2 x 1,050 W AC
curity	UCS-SPR-C240M5-A1	1 x Intel Xeon Gold 5120 14 Cores, 2.20 GHz, 19.25 MB L3, 105 W	1 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1B 3 PCIe Slots (x8, x8, x8)	32 GB SD Card	1 x 1,050 W AC
witches /ireless	UCS-SPR-C240M5-C1		2 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC		32 GB SD Card	2 x 1,050 W AC
Routers	UCS-SPR-C240M5-C2		2 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1A 3 PCle Slots (x8, x16, x8)	32 GB SD Card	2 x 1,050 W AC

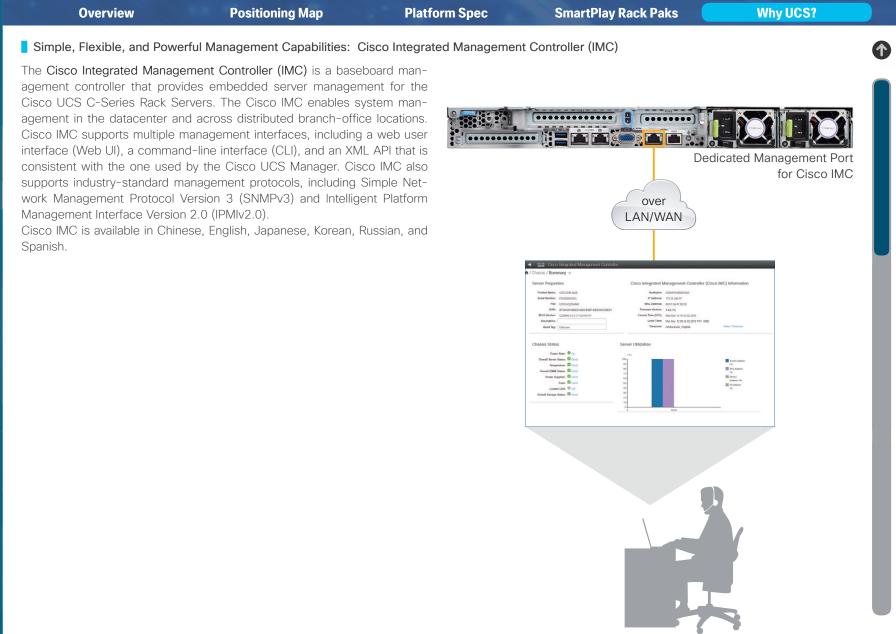
Services

## Compute - Servers Cisco UCS C-Series Rack Servers



Overview	Position	ing Map Platform Spec	SmartPlay Rack Paks		Why UCS?
Cisco UCS C220/2	240 M5 SFF Rack Server	SmartPlay Rack Paks Accessories			
	Decision OKU	Desideter		Compatib	le Models
Product Categorytegory	Product SKU	Description		C220 M5 SFF	C240 M5 SF
	UCS-MR-X16G1RS-H	16 GB, DDR4, 2,666 MHz RDIMM, PC4-21300, Dual F	Rank, x4, 1.2 v	٠	•
DDR4 DIMM	UCS-MR-X32G2RS-H	32 GB, DDR4, 2,666 MHz RDIMM, PC4-21300, Dual R	Rank, x4, 1.2 v	•	٠
SSD	UCS-SD150G61X-EV	150 GB, 6G SATA, SFF SSD		٠	٠
	UCS-HD300G10K12N	300 GB, 12G SAS, 10K RPM, SFF HDD		•	•
	UCS-HD600G10K12N	600 GB, 12G SAS, 10K RPM, SFF HDD		•	٠
HDD	UCS-HD1T7K12N	1 TB, 12G SAS, 7.2K RPM, SFF HDD		•	•
	UCS-HD300G15K12N	300 GB, 12G SAS, 15K RPM, SFF HDD		•	•
	UCSC-PCIE-IRJ45	Intel i350 Quad Port 1GE Adapter		•	•
	N2XX-AIPCI01	Intel X520 Dual Port 10GE SFP+ Adapter		•	٠
PCle	UCSC-PCIE-C40Q-03	Cisco VIC 1385 Dual Port 40GE QSFP+, CNA, RDMA		•	•
	UCSC-PCIE-BD32GF	Broadcom LPe32002 Dual-Port 32GE FC, HBA		•	٠
PCIe MLOM	UCSC-MLOM-C40Q-03	Cisco VIC 1387 Dual Port 40GE QSFP+, CNA, MLOM		•	•
	UCSC-PCI-2A-240M5	Riser Card 2A, 3 x PCIe Slots (x8, x16, x16) Supports	GPU	-	•
PCle Riser 2	UCSC-PCI-2B-240M5	Riser Card 2B, 3 x PCIe Slots (x8, x16, x8) Supports G	GPU + Rear NVMe	-	•
	UCSC-PCI-2C-240M5	Riser Card 2C, 3 x PCIe Slots (x8, x8, x8) Supports Fro	ont + Rear NVMe	-	•

## Compute - Servers Cisco UCS C-Series Rack Servers



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UCS C-Series

HyperFlex

Intersight

#### Security

Connect Switches

Routers

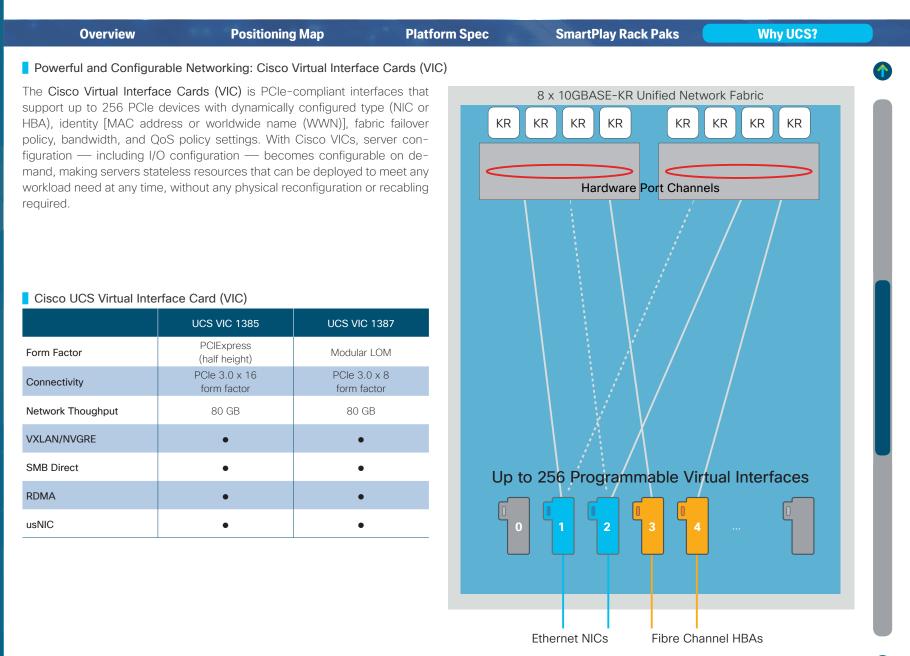
Services

Compute

Services

UCS C-Series

## Compute - Servers Cisco UCS C-Series Rack Servers



## **Compute - Servers Cisco UCS C-Series Rack Servers**

Overview



Why UCS?

## **Getting Started**

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UCS C-Series

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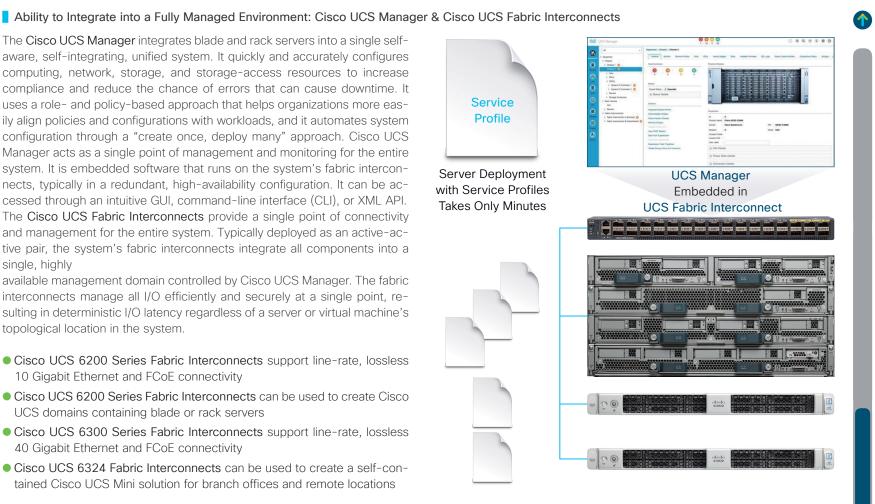
The Cisco UCS Manager integrates blade and rack servers into a single selfaware, self-integrating, unified system. It quickly and accurately configures computing, network, storage, and storage-access resources to increase compliance and reduce the chance of errors that can cause downtime. It uses a role- and policy-based approach that helps organizations more easily align policies and configurations with workloads, and it automates system configuration through a "create once, deploy many" approach. Cisco UCS Manager acts as a single point of management and monitoring for the entire system. It is embedded software that runs on the system's fabric interconnects, typically in a redundant, high-availability configuration. It can be accessed through an intuitive GUI, command-line interface (CLI), or XML API. The Cisco UCS Fabric Interconnects provide a single point of connectivity and management for the entire system. Typically deployed as an active-active pair, the system's fabric interconnects integrate all components into a single, highly

**Positioning Map** 

**Platform Spec** 

available management domain controlled by Cisco UCS Manager. The fabric interconnects manage all I/O efficiently and securely at a single point, resulting in deterministic I/O latency regardless of a server or virtual machine's topological location in the system.

- Cisco UCS 6200 Series Fabric Interconnects support line-rate, lossless 10 Gigabit Ethernet and FCoE connectivity
- Cisco UCS 6200 Series Fabric Interconnects can be used to create Cisco UCS domains containing blade or rack servers
- Cisco UCS 6300 Series Fabric Interconnects support line-rate, lossless 40 Gigabit Ethernet and FCoE connectivity
- Cisco UCS 6324 Fabric Interconnects can be used to create a self-contained Cisco UCS Mini solution for branch offices and remote locations



**SmartPlay Rack Paks** 

**Getting Started** 

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UCS C-Series HyperFlex

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Compute - Hyperconverged Infrastructure Cisco HyperFlex HX-Series





Overview Positioning Map Platform Spec SmartPlay HyperFlex Why HyperFlex?

#### Cisco HyperFlex Systems: Hyperconverged Multicloud Platform

You need infrastructure that can adapt to match the speed of your business whether deploying enterprise applications or containers in multicloud environments. The **Cisco HyperFlex Systems** with Intel Xeon Scalable processors deliver hyperconvergence with the power and simplicity for **any application**, on **any cloud**, and at **any scale**. Engineered on the Cisco Unified Computing System (UCS), Cisco HyperFlex Systems deliver the agility, scalability, and pay-as-you-grow economics of the cloud with the benefits of onpremises infrastructure.



#### Cisco HyperFlex HX-Series

The **Cisco HyperFlex HX-Series** provides unified compute, storage, and networking with cloud management. Physically, the Cisco HyperFlex System is delivered as a cluster of the Cisco HyperFlex HX-Series nodes.

A HyperFlex cluster requires a minimum of three homogeneous nodes (with disk storage). Data is replicated across at least two of these nodes, and a third node is required for continuous operation in the event of a single-node failure. Each node is equipped with at least one high-performance SSD drive for data caching and rapid acknowledgment of write requests.

- Hybrid nodes use SSD drives for caching and HDDs for the capacity layer
- All Flash nodes use SSD drives or NVMe storage for caching, and SSD drives for the capacity layer

#### Cisco HyperFlex HX220c Edge M5 Nodes

These nodes are designed to work in simplified three-node clusters using existing Gigabit Ethernet networks. Cisco HyperFlex Edge systems offer the same easy deployment and management as all Cisco HyperFlex systems.

Cisco HyperFlex HX220c M5 Hybrid and All-Flash Nodes

These nodes balance up to 8 drives of disk capacity in a 2-socket, 1-rackunit (1RU) package ideal for small-footprint environments.

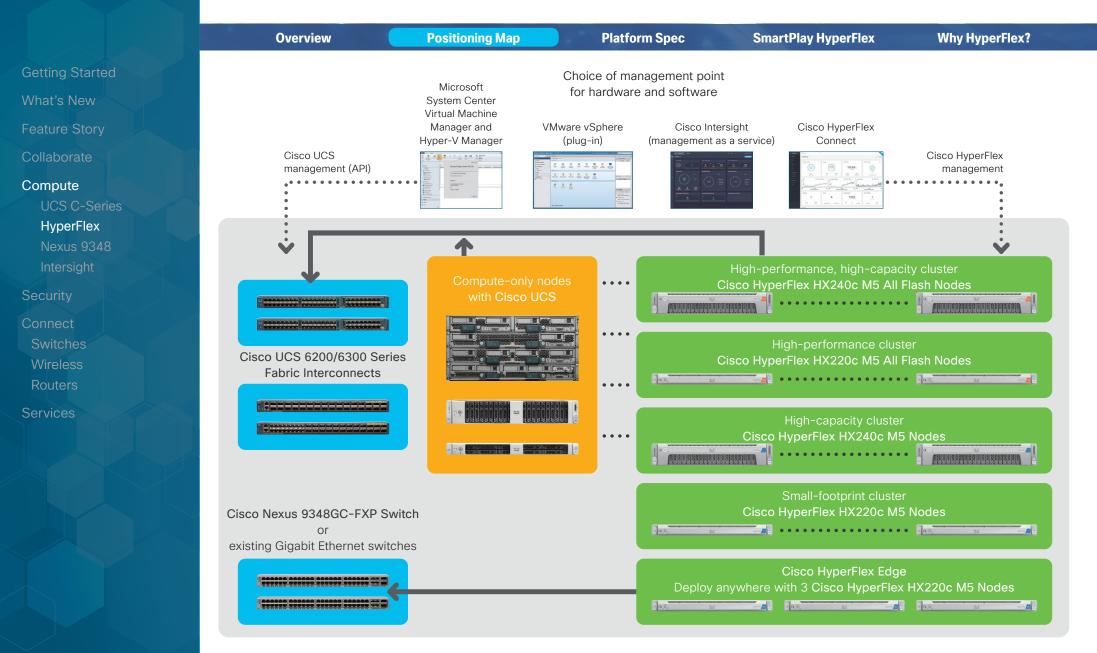
#### Cisco HyperFlex HX240c M5 Hybrid and All-Flash Nodes

These nodes balance high disk capacity (up to 23 drives) in a 2-socket, 2RU package ideal for storage-intensive applications.

Compute - Hyperconverged Infrastructure Cisco HyperFlex HX-Series

Brand New HyperFlex Promotion: Networking Included at No Additional Cost





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Cisco HyperFlex HX-Series	

Compute - Hyperconverged Infrastructure





Overvie	W		Posit	ioning	g Map		Р	latform	Spec		Smart	Play Hypei	Flex		Wh	у Нуре	erFlex?	
Cisco HyperFlex	(HX-S	eries																
		Processor		Me	emory				Internal	Storage			PCle	Gen3		Po	orts	
Product SKU			Max			2.5	3.5	Max (	Cache	٦	Иах Сарас	ity			mLOM			Rack
	Sock- ets	Processor Supported	Cores per Socket	Slots	Max Memory	inch SFF Slots	inch LFF Slots	SSD	PCle NVMe	HDD	SSD	Self- Encrypted HDD/SDD	Slots	Max GPUs	Slots	10 GB-T	Mgmt GE	Mour
HX-E-220M5SX*1	2	Intel Xeon Scalable	28	24	3 TB	10	-	800 GB	-	19.2 TB	-	-	2	1	1	2	1	1 RL
HXAF-E-220M5SX*1	2	Intel Xeon Scalable	28	24	3 TB	10	-	1.6 TB	-	-	30.4 TB	-	2	1	1	2	1	1 RL
HX220C-M5SX*2	2	Intel Xeon Scalable	28	24	3 TB	10	-	800 GB	-	19.2 TB	-	9.6 TB	2	1	1	2	1	1 RL
HXAF220C-M5SX*3	2	Intel Xeon Scalable	28	24	3 TB	10	-	1.6 TB	1.6 TB	-	30.4 TB	30.4 TB	2	1	1	2	1	1 RL
HXAF220C-M5SN*3	2	Intel Xeon Scalable	28	24	3 TB	10	-	-	375GB	-	40 TB	-	2	1	1	2	1	1 RL
HX240C-M5L <sup>*2</sup>	2	Intel Xeon Scalable	28	24	3 TB	2	12	3.2 TB	-	144 TB	-	-	6	2	1	2	1	2 RL
HX240C-M5SX*2	2	Intel Xeon Scalable	28	24	3 TB	24 + 2	-	1.6 TB	-	55.2 TB	-	27.6 TB	6	2	1	2	1	2 RL
HXAF240C-M5SX*3	2	Intel Xeon Scalable	28	24	3 TB	24 + 2	-	1.6 TB	1.6 TB	-	87.4 TB	87.4 TB	6	2	1	2	1	2 RL

\*1 HX-E-M5S-HXDP is required in CCW. See <u>Ordering Guide</u> for details. \*2 HX-M5S-HXDP is required in CCW. See <u>Ordering Guide</u> for details. \*3 HXAF-M5S-HXDP is required in CCW. See <u>Ordering Guide</u> for details.

#### Cisco HyperFlex HX Data Platform (HXDP) Licenses for Cisco HyperFlex HX220c Edge M5 Nodes

Product SKU*1		Description			
1-Year	2-Years	Description			
HXDP-E001-1YR=	HXDP-E001-2YR=	HXDP-E001-3YR=	HXDP-E001-4YR=	HXDP-E001-5YR=	Cisco HyperFlex Data Platform Edge Edition

\*1 HX-E-M5S-HXDP is required in CCW. See Ordering Guide for details.

Cisco HyperFlex HX Data Platform (HXDP) Licenses for Cisco HyperFlex HX220c/240c M5 Hybrid and All-Flash Nodes

Product SKU <sup>*1</sup>		Description			
1-Year	2-Years	3-Years	Description		
HXDP-S001-1YR=	HXDP-S001-2YR=	HXDP-S001-3YR=	HXDP-S001-4YR=	HXDP-S001-5YR=	Cisco HyperFlex Data Platform Standard Edition
HXDP-P001-1YR=	HXDP-P001-2YR=	HXDP-P001-3YR=	HXDP-P001-4YR=	HXDP-P001-5YR=	Cisco HyperFlex Data Platform Enterprise Edition

\*1 HX-M5S-HXDP or HXAF-M5S-HXDP is required in CCW. See Ordering Guide for details.

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## Compute - Hyperconverged Infrastructure Cisco HyperFlex HX-Series





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Overview	Positioning Map	Plati	form Spec	SmartPlay Hyperl	lex Why	HyperFlex?
Cisco HyperFlex HX	(220c M5 Nodes Hybrid SmartPlay H	lyperFlex				
Dreduct CKU			Bundle			
Product SKU	Processor	Memory	RAID Controller	PCle Option Card	Additional Storage	Power Supply
HX-SP-220M5SX-E*1		8 x 16 GB DDR4 2,666 MHz		Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM		2 x 770 W AC
					*1 LIV OD 220ME E :	-

\*1 HX-SP-220M5-E is required in CCW.

#### Cisco HyperFlex HX220c M5 Nodes All-Flash SmartPlay HyperFlex

Product SKU	Bundle								
Product SKU	Processor	Memory	RAID Controller	PCle Option Card	Additional Storage	Power Supply			
	2 x Intel Xeon Silver 4114 10 Cores, 2.20 GHz, 13.75 MB L3, 85 W	12 x 16 GB DDR4 2,666 MHz	Cisco 12G SAS HBA	Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM	32 GB SD Card 240 GB SATA M.2 SSD	2 x 770 W AC			

\*1 HXAF-SP-220M5-V is required in CCW.

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			Networking include
Overview	Positioning Map	Platform Spec	SmartPlay HyperFlex
-			

Cisco HyperFlex HX240c M5 Nodes Hybrid SmartPlay HyperFlex

Compute - Hyperconverged Infrastructure

Cisco HyperFlex HX-Series

Product SKU	Bundle									
	Processor	Memory RAID Controller P		PCle Option Card	Additional Storage	Power Supply				
HX-SP-240M5L-V2*1	2 x Intel Xeon Silver 4114 10 Cores, 2.20 GHz, 13.75 MB L3, 85 W	12 x 32 GB DDR4 2,666 MHz	Cisco 12G SAS HBA	Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM		2 x 1,050 W AC				
HX-SP-240M5SX-V1*2	2 x Intel Xeon Silver 4114 10 Cores, 2.20 GHz, 13.75 MB L3, 85 W	12 x 32 GB DDR4 2,666 MHz	Cisco 12G SAS HBA	Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM		2 x 1,600 W AC				
HX-SP-240M5SX-P*3	2 x Intel Xeon Gold 6140 18 Cores, 2.30 GHz, 24.75 MB L3, 140 W	12 x 32 GB DDR4 2,666 MHz	Cisco 12G SAS HBA	Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM		2 x 1,600 W AC				

\*1 HX-SP-240M5LFF-V2 is required in CCW. \*2 HX-SP-240M5-V1 is required in CCW. \*3 HX-SP-240M5-P is required in CCW.

#### Cisco HyperFlex HX240c M5 Nodes All-Flash SmartPlay HyperFlex

Draduct CKL	Bundle									
Product SKU	Processor	Memory	RAID Controller	PCle Option Card	Additional Storage	Power Supply				
HXAF-SP-240M5SX-V*1	2 x Intel Xeon Silver 4114 10 Cores, 2.20 GHz, 13.75 MB L3, 85 W	12 x 32 GB DDR4 2,666 MHz	Cisco 12G SAS HBA	Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM	32 GB SD Card 240 GB SATA M.2 SSD	2 x 1,600 W AC				
HXAF-SP-240M5SX-P1*2	2 x Intel Xeon Gold 6130 16 Cores, 2.10 GHz, 22 MB L3, 125 W	12 x 32 GB DDR4 2,666 MHz	LCISCO 12G SAS HRA	Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM		2 x 1,600 W AC				
HXAF-SP-240M5SX-P2*3	2 x Intel Xeon Gold 6148 20 Cores, 2.40 GHz, 27.5 MB L3, 150 W	12 x 32 GB DDR4 2,666 MHz	Cisco 12G SAS HBA	Cisco VIC 1387 Dual Port 40 GB QSFP CNA MLOM		2 x 1,600 W AC				

\*1 HXAF-SP-240M5-V is required in CCW. \*2 HXAF-SP-240M5-P1 is required in CCW. \*3 HXAF-SP-240M5-P2 is required in CCW.

Why HyperFlex?

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Compute - Hyperconverged Infrastructure Cisco HyperFlex HX-Series





Overview **Positioning Map Platform Spec SmartPlay HyperFlex** Why HyperFlex? **Getting Started** Cisco HyperFlex HX-Series SmartPlay HyperFlex Accessories **Compatible Models** Product Category Product SKU HX220c M5 HX240c M5 Description Feature Story Hvbrid All-Flash Hybrid All-Flash Cisco UCS 6248UP 48-Port Fabric Interconnect, 12-port License, 2 x Power Supply UCS-HX-FI48P . • • . 4 x Cisco 10GBASE-SR SFP+, 4 x Cisco Fibre Channel Shortwave SFP+ Cisco UCS 6296UP 96-Port Fabric Interconnect, 18-port License, 2 x Power Supply Compute UCS-HX-FI96P • • • 4 x Cisco 10GBASE-SR SFP+, 4 x Cisco Fibre Channel Shortwave SFP+ Fabric Interconnect **UCS C-Series** Cisco UCS 6332 Fabric Interconnect HX-SP-FI6332 • • • . 4 x Cisco 40GBASE-SR QSFP+, 2 x Power Supply **HyperFlex** Cisco UCS 6332-16UP Fabric Interconnect HX-SP-FI6332-16UP • • 4 x Cisco 40GBASE-SR QSFP+, 2 x Power Supply HX-SP-M16G1-RSH 16 GB, DDR4, 2,666 MHz RDIMM, PC4-21300, Single Rank, x4, 1.2 v • • • . DDR4 DIMM HX-SP-M32G2-RSH 32 GB, DDR4, 2,666 MHz RDIMM, PC4-21300, Dual Rank, x4, 1.2 v • . • • HX-STD-01A 1 x 480 GB SAS (Cache), 1 x 240 GB SATA (Log), 6 x 1.2 TB SAS (Capacity) • HX-STD-02A 1 x 480 GB SATA (Cache), 1 x 240 GB SATA (Log), 6 x 1.8 TB SAS (Capacity) • HX-STD-03A 1 x 400 GB SAS (Cache), 1 x 240 GB SATA (Log), 6 x 960 GB SATA (Capacity) • HX-STD-04A 1 x 400 GB SAS (Cache), 1 x 240 GB SATA (Log), 6 x 3.8 TB SATA (Capacity) \_ • \_ HDD Pack (Standard) HX-STD-05A 1 x 400 GB SAS (Cache), 1 x 240 GB SATA (Log), 11 x 3.8 TB SATA (Capacity) \_ • HX-STD-06A 1 x 1.6 TB SAS (Cache), 1 x 240 GB SATA (Log), 15 x 1.8 TB SAS (Capacity) • Services HX-STD-07A 1 x 1.6 TB SAS (Cache), 1 x 240 GB SATA (Log), 15 x 1.2 TB SAS (Capacity) • HX-STD-08A 1 x 400 GB SAS (Cache), 1 x 240 GB SATA (Log), 11 x 960 GB SATA (Capacity) • \_ HX-STD-10A 1 x 3.2 TB SAS (Cache), 1 x 240 GB SATA (Log), 6 x 8 TB SATA (Capacity) \*1 \_ HX-ENCR-01A 1 x 800 GB SAS (Cache), 1 x 240 GB SATA (Log), 6 x 1.2 TB SAS (Capacity) • \_ \_ HX-ENCR-03A 1 x 800 GB SAS (Cache), 1 x 240 GB SATA (Log), 6 x 960 GB SATA(Capacity) \_ • HX-ENCR-04A 1 x 800 GB SAS (Cache), 1 x 240 GB SATA (Log), 6 x 3.8 TB SATA (Capacity) ٠ \_ HDD Pack (Encrypted) HX-ENCR-05A 1 x 800 GB SAS (Cache), 1 x 240 GB SATA (Log), 11 x 3.8 TB SATA (Capacity) \_ \_ HX-ENCR-06A 1 x 1.6 TB SAS (Cache), 1 x 240 GB SATA (Log), 15 x 1.2 TB SAS (Capacity) • HX-ENCR-07A 1 x 800 GB SAS (Cache), 1 x 240 GB SATA (Log), 11 x 960 GB SATA (Capacity) 

\*1 HX-SP-240M5L-V2 only.

Getting Started

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#### Compute

UCS C-Series

HyperFlex Nexus 9348 Intersight

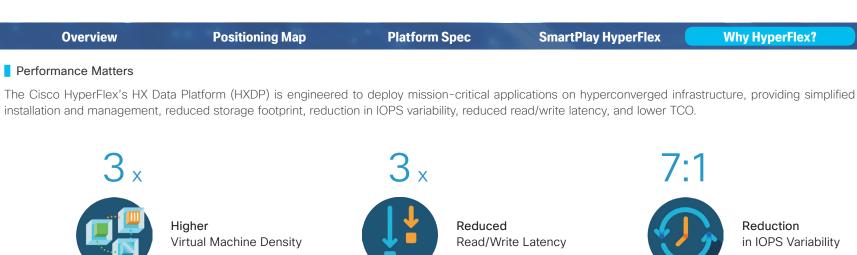
Security

Connect Switches Wireless Pouters

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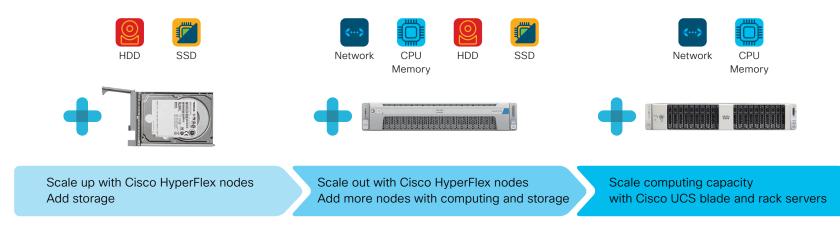
## Compute - Hyperconverged Infrastructure Cisco HyperFlex HX-Series





#### Independent Resource Scaling

The Cisco HyperFlex Systems include a purpose-built, high-performance distributed file system that expands the boundaries of hyperconverged infrastructure. You can scale your environment simply by adding nodes to the configuration. Unlike with any other hyperconverged product, you can choose to independently scale computing or storage capacity to meet the specific needs of your applications. Our predefined networking resources expand to incorporate the new nodes.



## Compute - Data Center Switches Cisco Nexus 9348GC-FXP Switch



## Overview Platform Spec Licenses & Accessories

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## Gigabit Ethernet ToR Switch with Proven Performance and Density

The **Cisco Nexus 9348GC-FXP Switch** is a 1RU switch that supports 696 Gbps of bandwidth and over 250 mpps. The 48 1GBASE-T downlink ports on the switch can be configured to work as 100-Mbps, 1-Gbps ports. The 4 ports of SFP28 can be configured as 1/10/25-Gbps and the 2 ports of QSFP28 can be configured as 40- and 100-Gbps ports. Cisco Nexus 9348GC-FXP Switch is designed to meet the changing needs of data centers, big data applications, and automated cloud environments.



#### Highlights

- Powered by Cisco Cloud Scale ASIC technology
- Support for Cisco NX OS Software and Cisco ACI (Application Centric Infrastructure) architecture
- High-performance, Layer 2 and 3 non-blocking architecture
- Easily deployed into either a hot-aisle or cold-aisle configuration
- Cisco Tetration Analytics Platform support with built-in hardware sensors for rich traffic flow telemetry and line-rate data collection
- Cisco Nexus Data Broker support for network traffic monitoring and analysis

- Robust hardware system specifications feature 4-core CPU, 24 GB of system memory, and respectively 128-GB SSD drive
- The 40-MB buffer supporting highly scalable data centers and big data applications
- 696 Gbps of bandwidth and over 250 mpps
- Fixed downlinks with 48 x FE/GE
- Fixed uplinks with 4 x 25GE SFP28, 2 x 100GE QSFP28

## Compute - Data Center Switches Cisco Nexus 9348GC-FXP Switch



	Overview		Platform	Spec	Licens	es & Acce	ssories						
ed	Cisco Nexus 9348G	C-FXP Swit	ch										
			Switching	Downlinks	Upl	links		Power Supply			F		
	Product SKU	Buffer (	Capacity (Bandwidth)	FE/GE	SFP/ SFP+/ SFP28	QSFP+/ QSFP28	Default PS	Dual PS	Port Side Exhaust	Port Side Intake	Port Side Exhaust	Port Side Intake	Rack Mount
	N9K-C9348GC-FXP	40 MB	696 Gbps	48	4	2	350 W AC	٠	•	•	•	•	1 RU

#### Cisco Nexus 9348GC-FXP Switch Bundle

Dra duct OV/1	Bundle							
Product SKU	Switch	QSFP+	QSFP28					
N9K-C9348-FX-B14Q	2 x N9K-C9348GC-FXP	4 x QSFP-40G-SR-BD	-					
N9K-C9348-FX-B24C	2 x N9K-C9348GC-FXP	-	4 x QSFP-100G-SR4-S or QSFP-100G-PSM4-S					





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UCS C-Series Nexus 9348

## Compute - Data Center Switches Cisco Nexus 9348GC-FXP Switch

Overview	Platform Spec	Licenses & Accessories
Cisco Nexus 9348GC	-FXP Switch Licenses for ACI	Cisco Ne
Product SKU	Description	Product SKU
ACI-ES-GF	ACI Essentials License	NXK-ACC-KI
ACI-AD-GF	ACI Advantage License	
ACI-SEC-GF	Security License	
ACI-STRG	Storage License	

## Cisco Nexus 9348GC-FXP Switch Accessories

Product SKU	Description
NXK-ACC-KIT-2P	Fixed Accessory Kit with 2-Post Rack Mount Kit

#### Cisco Nexus 9348GC-FXP Switch Licenses for NX-OS

Product SKU	Description
NXOS-ES-GF	NX-OS Essentials License
NXOS-AD-GF	NX-OS Advantage License
NXOS-SEC-GF	Security License
NXOS-STRG-GF	Storage License
NXOS-NDB	Nexus Data Broker License



**Getting Started** 

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WEB

#### Overview

Compute - Management

**Cisco** Intersight

## Adaptive Computing with Cloud-Powered Intelligence

Features & Licenses

Gallerv

The **Cisco Intersight** delivers a new era of computing for Cisco UCS and HyperFlex systems. This adaptive, cloud-powered management platform enables you to be anywhere and act everywhere. It delivers pervasive simplicity at a global level with connected technical support, so daily activities are easier for everyone.

Intersight provides actionable intelligence based on insights gained from analytics and best practices to enable faster, proactive operations. Intersight is an open platform that will be integrated with Cisco and third party tools and infrastructure to enable agile delivery, so IT can empower the business to respond quickly to change.

#### Highlights

#### Pervasive Simplicity

Use a GUI or API to meet the needs of your development teams.

Simplify the user experience with the capability to manage your infrastructure regardless of where it is installed.

#### Actionable Intelligence

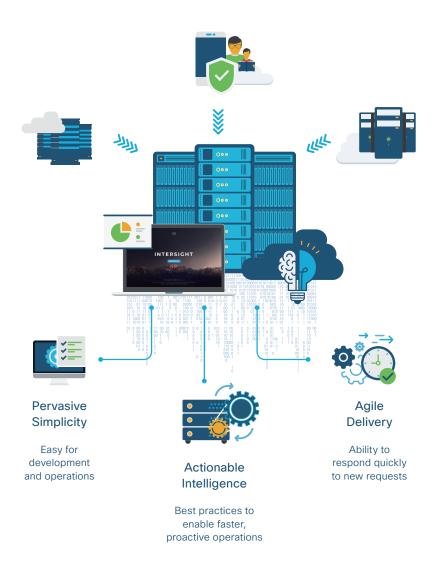
Use best practices to enable faster, proactive operations.

Gain actionable insight for ongoing improvement and problem avoidance.

#### Agile Delivery

Respond quickly to new requests and manage the unpredictable.

Deploy edge clusters as quickly as you deploy virtual machines in your data center.



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## Compute - Management Cisco Intersight

#### Overview

#### **Features & Licenses**

Gallery

Editions

Product SKU\*1

#### Cisco Intersight Editions (Licenses)

The **Cisco Intersight** uses a subscription-based license with multiple editions. Customers can purchase a Subscription duration of one, three, or five years and choose the Cisco UCS server volume tier they need for the selected subscription duration.

Each Cisco UCS server or Cisco HyperFlex system automatically includes a Cisco Intersight Base edition at no additional cost when the customer accesses the Cisco Intersight portal and claims the device. In addition, customers can purchase the Cisco Intersight Essentials edition using the Cisco ordering tool.

#### Base

The Cisco Intersight Base offering is available at no cost to customers with platforms enabled to support Cisco Intersight. Enabled platforms are those Cisco UCS and Cisco HyperFlex systems with a Cisco Intersight device connector, including eligible Cisco UCS Manager, Cisco IMC, and Cisco HyperFlex software.

Cisco Intersight Base provides access to a portal that delivers centralized monitoring and basic inventory of managed systems, organizational capabilities including tagging and search, and the capability to launch native endpoint management interfaces including Cisco UCS Manager.

#### Essentials

The Cisco Intersight Essentials offering builds on the functions provided in the Base edition. It includes centralized setup and configuration capabilities through a policy engine, firmware management, compliance tool integration, and other features.

Cisco Intersight Essentials enables customers to centralize configuration management through a unified policy engine, determine compliance with the Cisco UCS Hardware Compatibility List (HCL), and initiate firmware updates. The Essentials edition provides a single interface for monitoring, management, and operations, with the capability to launch the virtual keyboard, video, and mouse (vKVM) console directly from Cisco Intersight.

ncludes a	Free version, supports Cisco UCS and HyperFlex	٠	
omer ac- ion, cus- he Cisco	Global monitoring of health and inventory status	•	
	User customizable dashboard	٠	
ners with	Tagging and basic search	•	
are those nt device nd Cisco	Context launch of element managers	•	
entralized	Policy-based configuration with service profiles	-	

service profiles		
ote management and I	-	•
ware management with duled updates	-	•
compliance check and adde recommendations	-	•

Base

\*1 DC-MGT-SAAS is required in CCW.



Essentials

DC-MGT-SAAS-EST-C

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Nexus 934

#### Intersight

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eisce Intersight Dashboards				□ ■ 22 ▲ 23
III New features have recently been added! Learn Man	•			
Dashboard 1 💿				
Server Health Summary	×	HyperFlex Cluster Health Summary	× Fabric Interconnect Health Summary	× Server Inventory
а 5 склон. А 1 иманию	• 17 HEACTMY	• <u>2</u> *EALINY	B A 1 CRETCH. WARMED	(
HyperFlex Cluster Inventory	×	Fabric Interconnect Inventory	× Server Version Summary	×
2	THES	4 vite, - 2011 4	Value 4. 30(4) 1 4. 30(4) 1	9 UNASSOCIATED HyperFlex Version Sum
6 6 CONVERSED	О	160 20 140 INFO	• 1/(28) 9	(
Fabric Interconnect Version Summary	×	Server Model Summary	× Top 5 HyperFlex Clusters by Storage Utilization	×
	VERSIONS	MODELS	# Name Capacity Utilization	
		• 8000 MS 9	1 ATL_DIST_001 12.1TB	

Features & Licenses

Gallery

- Customizable dashboard to show overall faults/health/inventory for all managed infrastructure
- Can create unique dashboards for individual Intersight users
- Can add/remove widgets as desired

Compute - Management

**Cisco** Intersight

**Overview** 

- Can move (drag and drop) widgets to desired positions
- Can click on various widgets for more detailed information

III New features have	recently been added! Learn I	More				
Server Inventory 1	Server Profile					
Details		Properties				
Health	Healthy 6	Cisce UCSC C220-MSL				Front View Rear View Top View
Name Serial PID Vendor	C220-W2P21330645 W2P21330645 UCSC C220 MSL Cisco Systems Inc	Power			5	Health Overlay 🌊
Revision		CPUs	2	0	1	
Server Profile	Demo-Profile_1	Threads	72	Adapters	,	
Server Profile Status	OK O	Cores	36	NICs	2	
		Enabled Cores	36	HBAs	2	
Firmware Version	3.1(24)	Total Memory (GB)	192.0	UUID	A19EFD0F-C126-44AE	8986-640C1ED60A22
Firmware Status	Pending O	Speed (GHz)	82.8	Ferrowane	3.1(2d)	

- Server name, model, serial number, and other basic properties are displayed
- Health overlay for front/back/top views can be turned on/off as needed
- Alarms/faults visible on right hand side
- Server actions available as well IMC cross-launch, vKVM, power operations, tagging

 G Ø Q Search									25 Rows
C220-W2P214210PA 4P		10.1.1.138	HK220C-MSSX	0.0	0.0				
C220-W2P214210LR-00		10.1.1.199	HK220C-MSIX	0.0	0.0				
C220-WZP214303Z0-00		10.1.1.137	HK220C-MSSX	0.0	0.0				
C220-W2P21330565	۰	10.29.131.133	UCSC-C220-MSL	82.8	192.0			Demo-Profile_1	
C240-W2P21340YNQ		10.29.131.134	UCSC-C240-MSSX	10.2	8.0				
CC7UCS-13-1-5	0	172.28.225.20	UC58-8200-M4	52.8	256.0	CC7UCS-13		org-root/1s-UCP-Ctrl+11	0
CC7UCS-13-1-7	0	172.28.225.20	UC58-8250-M4	52.8	256.0	CC7UCS-13		org-root/le-DDC-DTR-11	0
CC7UCS-13-1-8	0	172.28.225.20	UC58-8250-M4	52.8	256.0	CC7UCS-13		org-root/fa-DDC-DTR-10	0
CC7UCS-13-1-3 O	0	172.28.225.20	UC\$8-8200-M4	50.4	128.0	CC7UCS-13		org-root/Is-UCP-Node-10	0
CC7UCS-13-1-6	0	172.28.225.20	UC58-8250-M4	52.8	256.0	CC7UCS-13		org-root/to-UCP-Ctr/s 10	0
CC7UCS1312	0	172.28.225.20	UCS8-8200-M5	50.4	128.0	CC7UCS-13			
cc70c513-1-4 O	۰	172.28.225.20	UC\$8-8200-M5	50.4	128.0	CC7UCS-13			
cc7ucs-13-1-1 Ø	0	172.28.225.20	UCS8-8200-M5	50.4	128.0	CC7UCS-13			
D23-UC51-1		10.29.131.185	UCSC-C240-MSS	97.2	16.0	023-UCS1		org-root/ls-centos-7-01	0
023-0051-1-7	0	10.29.131.185	UCSB-8200-M3	24.0	384.0	023-UCS1		org-root/la-windows1	0

- Main server tab shows all servers managed by Cisco Intersight, and provides basic Health/ Model/IP information
- Desired column details can be added/removed as user sees fit
- Clicking on any server name dials in to that server detailed server overview/inventory information

New features have recently been	added! Learn More			
Server Inventory Server Profile				
Collapse All	Processor 1			
Motherboard	State	Operable @	Hardware	
CIMC Criss C				
	Key identifiers		Architecture Socket Designation	
		Equipped Q	Vendor	
	•			
	Resources			
Adapters	CPU Stepping			
Storage     Controllers	CPU stepping Speed (GHz)	4 2.3		
	Model	Intel(R) Xeon(R) Gold 6140 CPU (J) 2 305Hz		
E LUN	Number of Threads	36		
	Number of Cores	18		
	Number of Cores Enabled	18		

- Detailed information for all server peripherals CPUs, memory, adapters, storage, etc.
- Can dial in to specific peripheral for additional component information
- Server actions tab available here as well

WEB