



# Interfaces and Modules

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- Wireless WAN (3G, 4G, 5G)
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- ISDN BRI Data S/T Interface
- Channelized T1/E1 and ISDN PRI
- Storage
- SM-X NIM Carrier Adapter card
- SFP/SFP+ modules on Embedded Ports
- SFP modules on C-NIM-2T only
- SFP on C-NIM-1X only

Module Description	Platform Name and Minimum IOS XE / XE SD-WAN / vManage	Description												
<b>UCS E-Series Server Blades</b>														
	<table border="0"> <tr> <td>C8300</td> <td>C8300</td> <td>C8300</td> <td>C8300</td> </tr> <tr> <td>2N2S-</td> <td>2N2S-</td> <td>1N1S-</td> <td>1N1S-</td> </tr> <tr> <td>4T2X</td> <td>6T</td> <td>4T2X</td> <td>6T</td> </tr> </table>	C8300	C8300	C8300	C8300	2N2S-	2N2S-	1N1S-	1N1S-	4T2X	6T	4T2X	6T	
C8300	C8300	C8300	C8300											
2N2S-	2N2S-	1N1S-	1N1S-											
4T2X	6T	4T2X	6T											
	<p style="text-align: center;">Minimum IOS XE / XE SD-WAN / vManage</p>													
UCS-E160S-	17.3.2 / 17.3.2 / 20.3.2	UCS-E, SingleWide, Intel Broadwell 6												

Module Description	Platform Name and Minimum IOS XE / XE SD-WAN / vManage		Description
M3/K9			Core CPU
UCS-E180D-M3/K9	17.3.2 / 17.3.2 / 20.3.2	No	UCS-E, DoubleWide, Intel Broadwell 8 Core CPU
UCS-E1120D-M3/K9	17.3.2 / 17.3.2 / 20.3.2	No	UCS-E, DoubleWide, Intel Broadwell 12 Core CPU

## Ethernet Switch

	C8300 2N2S-4T2X	C8300 2N2S-6T	C8300 1N1S-4T2X	C8300 1N1S-6T	Minimum IOS XE / XE SD-WAN / vManage	
NIM-ES2-4					17.3.2 / 17.3.2 / 20.3.2	4-port Gigabit Layer 2 Ethernet Switch NIM
NIM-ES2-8					17.3.2 / 17.3.2 / 20.3.2	8-port Gigabit Layer 2 Ethernet Switch NIM
NIM-ES2-8-P					17.3.2 / 17.3.2 / 20.3.2	8-Port Gigabit Layer 2 Ethernet Switch NIM with PoE Support
C-SM-16P4M2X					17.3.2 / 17.4.1 / 20.4.1	22-port 1G/2.5G/10G Layer 2 Ethernet Switch Service Module
C-SM-40P8M2X					17.3.2 / 17.4.1 / 20.4.1	No 50-port 1G/2.5G/10G Layer 2 Ethernet Switch Service Module

## Ethernet Routed-Port

	C8300 2N2S-4T2X	C8300 2N2S-6T	C8300 1N1S-4T2X	C8300 1N1S-6T	Minimum IOS XE / XE SD-WAN / vManage	
C-NIM-1X					17.3.2 / 17.3.2 / 20.3.2	1-port 1Gbps & 10Gbps Ethernet WAN

## Ethernet Routed-Port

		NIM, SFP & SFP+
C-NIM-2T	17.6.1 / 17.6.1 / 20.6.1	2-port 100Mbps & 1Gbps Ethernet WAN NIM, dual mode SFP or RJ45
C-NIM-1M	17.6.1 / 17.6.1 / 20.6.1	1-port 1Gbps & 2.5Gbps mGig RJ45 Ethernet WAN NIM with uPoE

## Wireless WAN (3G, 4G, 5G)

	C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T	
Minimum IOS XE / XE SD-WAN / vManage					
P-LTEA-EA					4G LTE PIM for Europe and North America
P-LTEA-LA					4G LTE PIM for Asia Pacific, Australia and Latam
P-LTEAP18-GL					4G LTE Advanced CAT18 PIM for Global (Europe, Australia & New Zealand)
P-5GS6-GL					5G Sub-6GHz PIM for Americas, Europe and ANZ
NIM-LTEA-EA					LTE Advanced NIM for Europe and North America
NIM-LTEA-LA					LTE Advanced NIM for Asia Pacific, Australia and Latam

## T1, E1, and G.703 Multi-flex Trunk

	C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T	
Minimum					

## T1, E1, and G.703 Multi-flex Trunk

IOS XE / XE SD-WAN / vManage

NIM-1MFT-T1/E1	17.3.2 / 17.3.2 / 20.3.2	1-port Multi-flex trunk voice/clear-channel data T1/E1 module
NIM-2MFT-T1/E1	17.3.2 / 17.3.2 / 20.3.2	2 port Multi-flex Trunk Voice/Clear-channel Data T1/E1 Module
NIM-4MFT-T1/E1	17.3.2 / 17.3.2 / 20.3.2	4 port Multi-flex Trunk Voice/Clear-channel Data T1/E1 Module
NIM-8MFT-T1/E1	17.3.2 / 17.3.2 / 20.3.2	8 port Multi-flex Trunk Voice/Clear-channel Data T1/E1 Module

## Voice Interface Cards

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS XE / XE SD-WAN / vManage

SM-X-PVDM-3000	17.3.2 / 17.3.2 / 20.3.2	3080-channel high-density voice DSP module
SM-X-PVDM-2000	17.3.2 / 17.3.2 / 20.3.2	2048-channel high-density voice DSP module
SM-X-PVDM-1000	17.3.2 / 17.3.2 / 20.3.2	1024-channel high-density voice DSP module
SM-X-PVDM-500	17.3.2 / 17.3.2 / 20.3.2	768-channel high-density voice DSP module
NIM-PVDM-256	17.3.2 / 17.3.2 / 20.3.2	256-channel voice DSP module
NIM-PVDM-128	17.3.2 / 17.3.2 / 20.3.2	128-channel voice DSP module
NIM-PVDM-264	17.3.2 / 17.3.2 / 20.3.2	64-channel voice DSP module

## Voice Interface Cards

NIM-PVDM-32	17.3.2 / 17.3.2 / 20.3.2	32-channel voice DSP module
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## Packet Voice Digital Signal Modules

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS XE / XE SD-WAN / vManage

NIM-2FXO	17.3.2 / 17.3.2 / 20.3.2	2-port FXO NIM		
NIM-4FXO	17.3.2 / 17.3.2 / 20.3.2	4-port FXO NIM		
NIM-2FXSP	17.3.2 / 17.3.2 / 20.3.2	2-port FXS NIM		
NIM-4FXSP	17.3.2 / 17.3.2 / 20.3.2	4-port FXS NIM		
NIM-2FXS/4FXOP	17.3.2 / 17.3.2 / 20.3.2	2-port FXS & 4-port FXO NIM		
NIM-4E/M	17.3.2 / 17.3.2 / 20.3.2	4-Port E/M NIM		
NIM-2BRI-NT/TE	17.3.2 / No / No	2-port BRI (NT and TE) NIM		
NIM-4BRI-NT/TE	17.3.2 / No / No	4-port BRI (NT and TE) NIM		
SM-X-8FXS/12FXO	17.3.2 / 17.3.2 / 20.3.2	8-port FXS & 12-port FXO single-wide Service Module		
SM-X-16FXS/2FXO	17.3.2 / 17.3.2 / 20.3.2	16-port FXS & 2-port FXO single-wide Service Module		
SM-X-24FXS/4FXO	17.3.2 / 17.3.2 / 20.3.2	24-port FXS & 4-port FXO single-wide Service Module		
SM-X-72FXS	17.3.2 / 17.3.2 / 20.3.2	No	No	72-port FXS double-wide Service Module

## Broadband xDSL

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS XE / XE SD-WAN / vManage

NIM-4SHDSL-EA	17.3.2 / 17.3.2 / 20.3.2	Multimode Four-Pair G.SHDSL NIM
NIM-VAB-A	17.3.2 / 17.3.2 / 20.3.2	Multimode VDSL2/ADSL/2/2+ NIM Annex A
NIM-VA-B	17.3.2 / 17.3.2 / 20.3.2	Multimode VDSL2/ADSL/2/2+ NIM Annex B
NIM-VAB-M	17.3.2 / 17.3.2 / 20.3.2	Multimode VDSL2/ADSL/2/2+ NIM Annex M

## Serial WAN Interfaces

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS XE / XE SD-WAN / vManage

SM-X-1T3/E3	17.3.2 / No / No	1-port clear-channel T3/E3 Service Module
NIM-1T	17.3.2 / 17.3.2 / 20.3.2	1-Port Serial High-Speed WAN Interface Card
NIM-2T	17.3.2 / 17.5.1 / 20.5.1	2-Port Serial High-Speed WAN Interface Card
NIM-4T	17.3.2 / 17.5.1 / 20.5.1	4-Port Serial High-Speed WAN Interface Card

## Async Terminal Server Interface

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS XE / XE SD-WAN / vManage

NIM-16A	17.3.2 / No / No	16-port Asynchronous Module
NIM24A	17.3.2 / No / No	24-port Asynchronous Module
SM-X-64A	17.3.2 / No / No	64-port Asynchronous Module

## ISDN BRI Data S/T Interface

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS-XE / XE SD-WAN / vManage

NIM-2BRI- S/T	16.6.1 / No / No	2-port ISDN BRI S/T network interface module
NIM-4BRI- S/T	16.6.1 / No / No	4-port ISDN BRI S/T network interface module

## Channelized T1/E1 and ISDN PRI

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS XE / XE SD-WAN / vManage

NIM- 1CE1T1-PRI	17.3.2 / 17.3.2 / 20.3.2	1 port Multi-flex Trunk Voice/Channelized Data T1/E1 Module
NIM- 2CE1T1-PRI	17.3.2 / 17.3.2 / 20.3.2	2 port Multi-flex Trunk Voice/Channelized Data T1/E1 Module

## Channelized T1/E1 and ISDN PRI

NIM-8CE1T1-PRI	17.3.2 / 17.3.2 / 20.3.2	8 port Multi-flex Trunk Voice/Channelized Data T1/E1 Module
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## Storage

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum  
IOS XE / XE SD-WAN / vManage

SSD-M2NVME-600G	17.3.2 / 17.3.2 / 20.3.2	600 GB, M2 Solid State Drive
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M2USB-16G	17.3.2 / 17.3.2 / 20.3.2	16 GB, M2 Solid State Drive
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M2USB-32G	17.3.2 / 17.3.2 / 20.3.2	32 GB, M2 Solid State Drive
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E100S-SSD-480G	No	480 GB, Solid State Drive
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E100S-SSD-960G	No	960 GB, Solid State Drive
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E100S-SSD-4T	No	4 TB, Solid State Drive
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E100S-HDD-SATA1T	No	1 TB, Hard Disk Drive
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E100S-HDD-SATA2T	No	2 TB, Hard Disk Drive
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## SM-X NIM Carrier Adapter Card

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Minimum



## SM-X NIM Carrier Adapter Card

IOS XE / XE SD-WAN / vManage

C-SM-NIM-ADPT

17.3.2 / 17.3.2 / 20.3.2

C-SM-X Adapter card for two NIM modules

## SFP/SFP+ Modules on Embedded Ports

C8300 2N2S- 4T2X	C8300 2N2S- 6T	C8300 1N1S- 4T2X	C8300 1N1S- 6T
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Supported  
Yes / No

GLC-EX-SMD

Yes

GLC-LH-SMD

Yes

GLC-LX-SM-RGD

Yes

GLC-SX-MMD

Yes

GLC-ZX-SMD

Yes

GLC-BX80-D-I

Yes

GLC-BX80-U-I

Yes

GLC-BX40-DA-I

Yes

GLC-BX40-D-I

Yes

GLC-BX40-U-I

Yes

GLC-BX-D

Yes

## SFP/SFP+ Modules on Embedded Ports

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GLC-BX-U			Yes	
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GLC-TE			Yes	
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SFP-10G-LR	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-10G-LRM	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-10G-ER	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-10G-SR	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-10G-BXD-I	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-10G-BXU-I	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-10G-BX40D-I	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-10G-BX40U-I	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X	Yes (Onboard, C-NIM- 1X)	C-NIM- 1X
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SFP-H10GB-ACU7M	Yes (Onboard,	C-NIM- 1X	Yes (Onboard,	C-NIM- 1X
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## SFP/SFP+ Modules on Embedded Ports

	C-NIM-1X)	C-NIM-1X)		C-NIM-1X)
SFP-H10GB-ACU10M	Yes (Onboard, C-NIM-1X)	C-NIM-1X	Yes (Onboard, C-NIM-1X)	C-NIM-1X

## SFP Modules on C-NIM-2T Only

	C8300 2N2S-4T2X	C8300 2N2S-6T	C8300 1N1S-4T2X	C8300 1N1S-6T	
GLC-FE-100FX					C-NIM-2T 100BASE-FX SFP for FE port - Only supported on C-NIM-2T
GLC-FE-100LX					C-NIM-2T 100BASE-LX SFP for FE port - Only supported on C-NIM-2T
GLC-FE-100EX					C-NIM-2T 100BASE-EX SFP (40km) - Only supported on C-NIM-2T

## SFP on C-NIM-1X Only

	C8300 2N2S-4T2X	C8300 2N2S-6T	C8300 1N1S-4T2X	C8300 1N1S-6T	
DWDM-SFP-XXXX					C-NIM-1X DWDM SFP 1Gbps
DWDM-SFP10G-XXXX					C-NIM-1X DWDM SFP 10Gbps

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