

Interfaces and Modules

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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 / SD-WAN / vManage		Description
UCS E-Series Server Blades			
	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
UCS-E160S-M3/K9	No	No	UCS-E, SingleWide, Intel Broadwell 6

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

Ethernet Switch

	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
NIM-ES2-4	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4-port Gigabit Layer 2 Ethernet Switch NIM
NIM-ES2-8	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	8-port Gigabit Layer 2 Ethernet Switch NIM
NIM-ES2-8-P	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	8-Port Gigabit Layer 2 Ethernet Switch NIM with PoE Support
C-SM-16P4M2X	No	No	22-port 1G/2.5G/10G Layer 2 Ethernet Switch Service Module
C-SM-40P8M2X	No	No	50-port 1G/2.5G/10G Layer 2 Ethernet Switch Service Module

Ethernet Routed-Port

	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
C-NIM-1X	No	No	1-port 1Gbps & 10Gbps Ethernet WAN NIM, SFP & SFP+

Ethernet Routed-Port

C-NIM-2T	17.6.1 / 17.6.1 / 20.6.1	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	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)

	C8200 1N-4T	C8200L 1N-4T	
Minimum IOS XE / XE SD-WAN / vManage			
P-LTEA-EA	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4G LTE PIM for Europe and North America
P-LTEA-LA	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4G LTE PIM for Asia Pacific, Australia and Latam
P-LTEAP18-GL	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4G LTE Advanced CAT18 PIM for Global (Europe, Australia & New Zealand)
P-5GS6-GL	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	5G Sub-6GHz PIM for Americas, Europe and ANZ
NIM-LTEA-EA	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	LTE Advanced NIM for Europe and North America
NIM-LTEA-LA	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	LTE Advanced NIM for Asia Pacific, Australia and Latam

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

	C8200 1N-4T	C8200L 1N-4T	
Minimum IOS XE / XE SD-WAN / vManage			
NIM-1MFT-T1/E1	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	1-port Multi-flex trunk voice/clear-channel data T1/E1 module

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

NIM-2MFT-T1/E1	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	2 port Multi-flex Trunk Voice/Clear-channel Data T1/E1 Module
NIM-4MFT-T1/E1	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4 port Multi-flex Trunk Voice/Clear-channel Data T1/E1 Module
NIM-8MFT-T1/E1	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	8 port Multi-flex Trunk Voice/Clear-channel Data T1/E1 Module

Voice Interface Cards

	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
SM-X-PVDM-3000	No	No	3080-channel high-density voice DSP module
SM-X-PVDM-2000	No	No	2048-channel high-density voice DSP module
SM-X-PVDM-1000	No	No	1024-channel high-density voice DSP module
SM-X-PVDM-500	No	No	768-channel high-density voice DSP module
NIM-PVDM-256	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	256-channel voice DSP module
NIM-PVDM-128	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	128-channel voice DSP module
NIM-PVDM-264	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	64-channel voice DSP module
NIM-PVDM-32	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	32-channel voice DSP module

Packet Voice Digital Signal Modules

	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
NIM-2FXO	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	2-port FXO NIM
NIM-4FXO	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4-port FXO NIM
NIM-2FXSP	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	2-port FXS NIM
NIM-4FXSP	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4-port FXS NIM
NIM-2FXS/4FXOP	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	2-port FXS & 4-port FXO NIM
NIM-4E/M	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	4-Port E/M NIM
NIM-2BRI-NT/TE	17.4.1 / No / No	17.5.1 / No / No	2-port BRI (NT and TE) NIM
NIM-4BRI-NT/TE	17.4.1 / No / No	17.5.1 / No / No	4-port BRI (NT and TE) NIM
SM-X-8FXS/12FXO	No	No	8-port FXS & 12-port FXO single-wide Service Module
SM-X-16FXS/2FXO	No	No	16-port FXS & 2-port FXO single-wide Service Module
SM-X-24FXS/4FXO	No	No	24-port FXS & 4-port FXO single-wide Service Module
SM-X-72FXS	No	No	72-port FXS double-wide Service Module

Broadband xDSL

	C8200 1N-4T	C8200L 1N-4T	
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Broadband xDSL

	Minimum IOS XE / XE SD-WAN / vManage		
NIM-4SHDSL-EA	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	Multimode Four-Pair G.SHDSL NIM
NIM-VAB-A	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	Multimode VDSL2/ADSL/2/2+ NIM Annex A
NIM-VA-B	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	Multimode VDSL2/ADSL/2/2+ NIM Annex B
NIM-VAB-M	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	Multimode VDSL2/ADSL/2/2+ NIM Annex M

Serial WAN Interfaces

	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
SM-X-1T3/E3	No	No	1-port clear-channel T3/E3 Service Module
NIM-1T	17.4.1 / 17.5.1 / 20.5.1	17.5.1 / 17.5.1 / 20.5.1	1-Port Serial High-Speed WAN Interface Card
NIM-2T	17.4.1 / 17.5.1 / 20.5.1	17.5.1 / 17.5.1 / 20.5.1	2-Port Serial High-Speed WAN Interface Card
NIM-4T	17.4.1 / 17.5.1 / 20.5.1	17.5.1 / 17.5.1 / 20.5.1	4-Port Serial High-Speed WAN Interface Card

Async Terminal Server Interface

	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
NIM-16A	17.4.1 / No / No	17.5.1 / No / No	16-port Asynchronous Module

Async Terminal Server Interface

NIM24A	17.4.1 / No / No	17.5.1 / No / No	24-port Asynchronous Module
SM-X-64A	17.4.1 / No / No	17.5.1 / No / No	64-port Asynchronous Module

ISDN BRI Data S/T Interface

C8200 1N-4T C8200L 1N-4T

Minimum
IOS XE / XE SD-WAN / vManage

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

Channelized T1/E1 and ISDN PRI

C8200 1N-4T C8200L 1N-4T

Minimum
IOS XE / XE SD-WAN / vManage

NIM-1CE1T1-PRI	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	1 port Multi-flex Trunk Voice/Channelized Data T1/E1 Module
NIM-2CE1T1-PRI	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	2 port Multi-flex Trunk Voice/Channelized Data T1/E1 Module
NIM-8CE1T1-PRI	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	8 port Multi-flex Trunk Voice/Channelized Data T1/E1 Module

Storage

C8200 1N-4T C8200L 1N-4T

Minimum
IOS XE / XE SD-WAN / vManage

Storage

SSD-M2NVME-600G	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	600 GB, M2 Solid State Drive
M2USB-16G	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	16 GB, M2 Solid State Drive
M2USB-32G	17.4.1 / 17.4.1 / 20.4.1	17.5.1 / 17.5.1 / 20.5.1	32 GB, M2 Solid State Drive
E100S-SSD-480G	No	No	480 GB, Solid State Drive
E100S-SSD-960G	No	No	960 GB, Solid State Drive
E100S-SSD-4T	No	No	4 TB, Solid State Drive
E100S-HDD-SATA1T	No	No	1 TB, Hard Disk Drive
E100S-HDD-SATA2T	No	No	2 TB, Hard Disk Drive

SM-X NIM Carrier Adapter Card

	C8200 1N-4T	C8200L 1N-4T	
	Minimum IOS XE / XE SD-WAN / vManage		
C-SM-NIM-ADPT	No	No	C-SM-X Adapter card for two NIM modules

SFP/SFP+ Modules on Embedded Ports

	C8200 1N-4T	C8200L 1N-4T	
	Supported Yes / No		
GLC-EX-SMD	Yes	Yes	
GLC-LH-SMD	Yes	Yes	

SFP/SFP+ Modules on Embedded Ports

GLC-LX-SM-RGD	Yes	Yes
GLC-SX-MMD	Yes	Yes
GLC-ZX-SMD	Yes	Yes
GLC-BX80-D-I	Yes	Yes
GLC-BX80-U-I	Yes	Yes
GLC-BX40-DA-I	Yes	Yes
GLC-BX40-D-I	Yes	Yes
GLC-BX40-U-I	Yes	Yes
GLC-BX-D	Yes	Yes
GLC-BX-U	Yes	Yes
GLC-TE	Yes	Yes
SFP-10G-LR	No	No
SFP-10G-LRM	No	No
SFP-10G-ER	No	No
SFP-10G-SR	No	No
SFP-10G-BXD-I	No	No
SFP-10G-BXU-I	No	No
SFP-10G-BX40D-I	No	No
SFP-10G-BX40U-I	No	No
SFP-H10GB-	No	No

SFP/SFP+ Modules on Embedded Ports

ACU7M

SFP-H10GB- ACU10M	No	No
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SFP Modules on C-NIM-2T Only

	C8200 1N-4T	C8200L 1N-4T	
GLC-FE-100FX	C-NIM-2T	C-NIM-2T	100BASE-FX SFP for FE port - Only supported on C-NIM-2T
GLC-FE-100LX	C-NIM-2T	C-NIM-2T	100BASE-LX SFP for FE port - Only supported on C-NIM-2T
GLC-FE-100EX	C-NIM-2T	C-NIM-2T	100BASE-EX SFP (40km) - Only supported on C-NIM-2T

SFP on C-NIM-1X Only

	C8200 1N-4T	C8200L 1N-4T	
DWDM-SFP-XXXX	No	No	DWDM SFP 1Gbps
DWDM-SFP10G-XXXX	No	No	DWDM SFP 10Gbps

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