

Voice Hardware Compatibility Matrix (Cisco 17/26/28/36/37/38xx, VG200, Catalyst 4500/4000, Catalyst 6xxx)

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Introduction

This document describes the relationship between routers, gateways, Cisco Catalyst switches, and voice network modules and cards.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

- To compare many of the network modules and interface cards, refer to the document [Release Notes for the Cisco 3700 Series Modular Access Routers for Cisco IOS Release 12.3\(4\)XD](#).
- Make certain that the version of Cisco IOS® System Software that you run supports the network module and interface card combination that you want to use. You can check Cisco IOS Software compatibility with the [Software Advisor](#) ([registered](#) customers only) tool.

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

Voice Hardware Compatibility Overview

The three tables in this section show the relationship between routers, gateways, Catalyst switches, and voice network modules and cards:

Router Model (right)			
Voice Interface Card	1721	1750	1751 1760

(VIC) (below)			
NM-1V ¹, NM-2V ¹	No	No	No
<u>NM-HDV</u>	No	No	No
<u>NM-HDA-4FXS, EM-HDA-4FXO, EM-HDA-8FXS</u>	No	No	No
<u>MRP</u>	No	No	No
NM-HDV-FARM	No	No	No
NM-HDV2	No	No	No
<u>NM-HD-1V, NM-HD-2V, NM-HD-2VE ²</u>	No	No	No
<u>EVM-HD-8FXS/DID, EM-4BRI-NT/TE, EM-HDA-8FXS, EM-HDA-6FXO, EM-HDA-3FXS/4FXO</u>	No	No	No
Voice Advanced Integration Module (<u>AIM-VOICE</u>)	No	No	No
Voice WAN Interface Cards (VWICs) without Network Modules	Yes	No	Yes
VICs without Network Modules	No	Yes	Yes
Switch Model	Support Features		
Catalyst 4500/4000 Access Gateway Module	WAN Interface Cards (WICs), VICs, Digital Signal Processors (DSPs), and IP phone inline power cards		
Catalyst 6500/6000	T1/E1 trunk modules, Foreign Exchange Station (FXS) modules, IP phone inline power cards, and the Communications Media Module		

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked ATM Adaptation Layer 2 (AAL2) on analog ports
 - Universal Foreign Exchange Office (FXO) (VIC2-xFXO) voice cards with software-selectable Centralized Automated Message Accounting (CAMA)

- Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/Direct Inward Dial (DID) cards
- The drop of DSPs on a Plain Old Telephone Service (POTS)-to-POTS call that stays within the network module
- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:
 - Modem relay

There is support for the G.168 echo cancellation (ECAN) in Cisco IOS Software Release 12.3(4)XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

Router Model (right)	VG200 3	261x, 2x, 5x	2600XM	2691	2801 4	2811, 2821, 2851
VIC (below)						
NM-1V ¹ ; NM-2V ¹	Yes	Yes	Yes	Yes	No	No
NM-HDV	Yes	Yes	Yes	Yes	No	Yes
NM-HDA-4FXS, EM-HDA-4FXO, EM-HDA-8FXS	No	Yes	Yes	Yes	No	Yes
MRP	No	No	No	No	No	No
NM-HDV-FARM	Yes	Yes ⁵	Yes	Yes	No	Yes
NM-HDV2	No	No	Yes	Yes	No	Yes
NM-HD-1V, NM-HD-2V, NM-HD-2VE ²	No	No	Yes	Yes	No	Yes
EVM-HD-8FXS/DID, EM-4BRI-NT/TE, EM-HDA-8FXS, EM-HDA-6FXO, EM-HDA-3FXS/4FXO	No	No	No	No	No	Yes ⁶
Voice Advanced Integration Module (AIM-VOICE)	No	Yes	Yes	Yes	No	No

VWICs without Network Modules	No	Yes ⁷	Yes ⁷	Yes ⁷	Yes	Yes
VICs without Network Modules	No	No	No	No	Yes	Yes
Switch Model	Support Features					
Catalyst 4500/4000 Access Gateway Module	WICs, VICs, DSPs, and IP phone inline power cards					
Catalyst 6500/6000	T1/E1 trunk modules, FXS modules, IP phone inline power cards, and the Communications Media Module					

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:

- Trunked ATM Adaptation Layer 2 (AAL2) on analog ports
- Universal Foreign Exchange Office (FXO) (VIC2-xFXO) voice cards with software-selectable Centralized Automated Message Accounting (CAMA)
- Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/Direct Inward Dial (DID) cards
- The drop of DSPs on a Plain Old Telephone Service (POTS)-to-POTS call that stays within the network module

- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:

- Modem relay

There is support for the G.168 echo cancellation (ECAN) in Cisco IOS Software Release 12.3(4)XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

- ³These products have reached end of sale. Refer to the [End-of-Sale Announcement for the Cisco VG200 Access Gateway](#).
- ⁴ **Slot 0 in 2801** can only be configured for voice, which means that PRI configurations with VWIC are not possible. However, configuration for channel associated signaling (CAS) is possible.
- ⁵There is support on the Cisco 2650 and 2651, but not on the 261x and 262x.
- ⁶Only the Cisco 2821 and 2851 models support the EVM-HD-8FXS/DID.

- ⁷VWICs without network modules have support on these platforms only if you have installed [AIM-VOICE-30](#) or [AIM-ATM-VOICE-30](#).

Router Model (right)	ICS 7750	3620	3640/40A	3660	37xx	3825, 3845
VIC (below)						
NM-1V ¹ ; NM-2V ¹	No	Yes	Yes	Yes	Yes	No
NM-HDV	No	Yes	Yes	Yes	Yes	Yes
NM-HDA-4FXS, EM-HDA-4FXO, EM-HDA-8FXS	No	No	Yes	Yes	Yes	Yes
MRP	Yes	No	No	No	No	No
NM-HDV-FARM	No	No	Yes	Yes	Yes	Yes
NM-HDV2	No	No	No	No	Yes	Yes
NM-HD-1V, NM-HD-2V, NM-HD-2VE ²	No	No	Yes	Yes	Yes	Yes
EVM-HD-8FXS/DID, EM-4BRI-NT/TE, EM-HDA-8FXS, EM-HDA-6FXO, EM-HDA-3FXS/4FXO	No	No	No	No	No	Yes
Voice Advanced Integration Module (AIM-VOICE)	No	No	No	Yes ³	Yes	No
VWICs without Network Modules	Yes	No	No	No	Yes ⁴	Yes
VICs without Network Modules	Yes	No	No	No	No	Yes
Switch Model	Support Features					
Catalyst 4500/4000						

Access Gateway Module	WICs, VICs, DSPs, and IP phone inline power cards
Catalyst 6500/6000	T1/E1 trunk modules, FXS modules, IP phone inline power cards, and the Communications Media Module

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked ATM Adaptation Layer 2 (AAL2) on analog ports
 - Universal Foreign Exchange Office (FXO) (VIC2-xFXO) voice cards with software-selectable Centralized Automated Message Accounting (CAMA)
 - Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/Direct Inward Dial (DID) cards
 - The drop of DSPs on a Plain Old Telephone Service (POTS)-to-POTS call that stays within the network module
- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:
 - Modem relay

There is support for the G.168 echo cancellation (ECAN) in Cisco IOS Software Release 12.3(4)XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

- ³On the Cisco 3660, the AIM-VOICE-30 and AIM-ATM-VOICE-30 products only have support when there is also a [multiservice interchange \(MIX\) daughter card](#) installed.
- ⁴VWICs without network modules have support on these platforms only if you have installed [AIM-VOICE-30](#) or [AIM-ATM-VOICE-30](#).

Cisco 17xx, VG200, 26xx, and 2800 Platforms Matrix

The three tables in this section show the router or gateway models that support the voice network modules and the VICs. For more information on the modules and cards, which includes Cisco IOS Software support, click the link for the appropriate module or card.

Routers/Gateways				
Model	1721	1750	1751, 1760	VG200 ¹
Voice Network Module (right)	Not Used	Not Used	Not Used	NM-1V 2 NM-HDV
VIC (below)				NM-2V 2

VIC-2FXO-EU	No	Yes	Yes	Yes	No
VIC-2FXO-M1/M2/M3	No	Yes	Yes	Yes	No
VIC-2FXS	No	Yes	Yes	Yes	No
VIC-2E/M	No	Yes	Yes	Yes	No
VIC-2BRI-S/T-TE	No	No	No	Yes	No
VIC-2BRI-NT/TE	No	No	Yes	No	No
VIC-2DID	No	No	Yes	Yes	No
VIC-2CAMA	No	No	No	No	No
VIC-1J1	No	No	No	No	No
VIC-4FXO-M1	No	No	No	No	No
VIC-4FXS/DID	No	No	Yes	No	No
VIC2-4FXO (FXO/CAMA)	No	No	Yes	No	No
VIC2-2FXO (FXO/CAMA)	No	No	Yes	No	No
VIC2-2FXS	No	No	Yes	No	No
VIC2-2E/M	No	No	Yes	No	No
VIC2-2BRI-NT/TE	No	No	Yes	No	No
VWIC-xMFT-E1 (with or without drop and insert [DI])	Yes ³	No	Yes	No	Yes
VWIC-1MFT-G703	Yes ³	No	Yes	No	No
VWIC-2MFT-G703	Yes ³	No	Yes	No	Yes
VWIC-xMFT-T1 (with or without DI)	Yes ³	No	Yes	No	Yes

Note:

- ¹These products have reached end of sale. Refer to the [End-of-Sale Announcement for the Cisco VG200 Access Gateway](#).
- ²The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked AAL2 on analog ports

- Universal FXO (VIC2-xFXO) voice cards with software-selectable CAMA
 - Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/DID cards
 - The drop of DSPs on a POTS-to-POTS call that stays within the network module
- ³This configuration supports data applications only.

Routers/Gateways							
Model	261x, 2x, 5x		2600XM, 2691				
Voice Network Module (right)	NM-1V 1	NM-HDV	NM-1V 1	NM-HD-1V 1	NM-HD-2VE 2	NM-HDV	NM-HDV2
VIC (below)	NM-2V 1		NM-2V 1	NM-HD-2V 1			
<u>VIC-2FXO-EU</u>	Yes	No	Yes	No	No	No	No
<u>VIC-2FXO-M1/M2/M3</u>	Yes	No	Yes	No	No	No	No
<u>VIC-2FXS</u>	Yes	No	Yes	No	No	No	No
<u>VIC-2E/M</u>	Yes	No	Yes	No	No	No	No
<u>VIC-2BRI-S/T-TE</u>	Yes	No	Yes	No	No	No	No
<u>VIC-2BRI-NT/TE</u>	Yes	No	Yes	No	No	No	No
<u>VIC-2DID</u>	Yes	No	Yes	Yes	Yes	No	Yes
<u>VIC-2CAMA</u>	Yes	No	Yes	No	No	No	No
<u>VIC-1J1</u>	No	Yes	No	No	No	Yes	Yes
<u>VIC-4FXO-M1</u>	No	No	No	No	No	No	No
<u>VIC-4FXS/DID</u>	No	No	No	Yes ³	Yes ³	No	Yes ³
VIC2-4FXO (FXO/CAMA)	No	No	No	Yes	Yes	No	Yes
VIC2-2FXO (FXO/CAMA)	No	No	No	Yes	Yes	No	Yes
VIC2-2FXS	No	No	No	Yes	Yes	No	Yes
VIC2-2E/M	No	No	No	Yes	Yes	No	Yes
VIC2-2BRI-NT/TE	No	No	No	Yes	Yes	No	Yes
<u>VVIC-xMFT-E1 (with or without DI)</u>	No	Yes	No	No	Yes	Yes	Yes

VVIC-1MFT-G703	No	No	No	No	No	No	Yes
<u>VVIC-2MFT-G703</u>	No	Yes	No	No	No	Yes	Yes
<u>VVIC-xMFT-T1 (with or without DI)</u>	No	Yes	No	No	Yes	Yes	Yes

Note:

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked AAL2 on analog ports
 - Universal FXO (VIC2-xFXO) voice cards with software-selectable CAMA
 - Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/DID cards
 - The drop of DSPs on a POTS-to-POTS call that stays within the network module

- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:
 - Modem relay

There is support for the G.168 ECAN in Cisco IOS Software Release 12.3(4) XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

- ³On this platform series and network module type, the VIC-4FXS/DID card currently does not support the DID mode of operation. The voice ports only operate as FXS interfaces. Support for both modes of operation will be available in Cisco IOS Software Release 12.3(14)T. If analog DID is necessary at this time, use the VIC-2DID product instead.

Routers/Gateways						
Model	<u>2801</u>	<u>2811, 2821, 2851</u>				
Voice Network Module (right)	Not Used	<u>NM-HD-1V</u> ¹	<u>NM-HD-2VE</u> ²	<u>NM-HDV</u>	NM-HDV2	Chassis slot
VIC (below)		<u>NM-HD-2V</u> ¹				
<u>VIC-2FXO, EU</u>	No	No	No	No	No	No
<u>VIC-2FXO-M1/M2/M3</u>	No	No	No	No	No	No
<u>VIC-2FXS</u>	No	No	No	No	No	No

VIC-2E/M	No	No	No	No	No	No
VIC-2BRI-S/T-TE	No	No	No	No	No	No
VIC-2BRI-NT/TE	No	No	No	No	No	No
VIC-2DID	Yes	Yes	Yes	No	Yes	Yes
VIC-2CAMA	No	No	No	No	No	No
VIC-1J1	No	No	No	Yes	Yes	No
VIC-4FXO-M1	No	No	No	No	No	No
VIC-4FXS/DID	Yes	Yes ³	Yes ³	No	Yes ³	Yes ³
VIC2-4FXO (FXO/CAMA)	Yes	Yes	Yes	No	Yes	Yes
VIC2-2FXO (FXO/CAMA)	Yes	Yes	Yes	No	Yes	Yes
VIC2-2FXS	Yes	Yes	Yes	No	Yes	Yes
VIC2-2E/M	Yes	Yes	Yes	No	Yes	Yes
VIC2-2BRI-NT/TE	Yes	Yes	Yes	No	Yes	Yes
VVIC-xMFT-E1 (with or without DI)	Yes	No	Yes	Yes	Yes	Yes
VVIC-1MFT-G703	Yes	No	No	No	Yes	Yes
VVIC-2MFT-G703	Yes	No	No	Yes	Yes	Yes
VVIC-xMFT-T1 (with or without DI)	Yes	No	Yes	Yes	Yes	Yes

Note:

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked AAL2 on analog ports
 - Universal FXO (VIC2-xFXO) voice cards with software-selectable CAMA
 - Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/DID cards
 - The drop of DSPs on a POTS-to-POTS call that stays within the network module
- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:

- o Modem relay

There is support for the G.168 ECAN in Cisco IOS Software Release 12.3(4)XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

- ³On this platform series and network module type, the VIC-4FXS/DID card currently does not support the DID mode of operation. The voice ports only operate as FXS interfaces. Support for both modes of operation will be available in Cisco IOS Software Release 12.3(14)T. If analog DID is necessary at this time, use the VIC-2DID product instead.

Cisco ICS 7750, 36xx, 37xx, and 38xx Platforms Matrix

Routers/Gateways							
Model	ICS 7750	3620		3640/40A, 3660			
Voice Network Module (right)	MRP	NM-1V 1 NM-2V 1	NM-HDV	NM-1V 1 NM-2V 1	NM-HD-1V 1 NM-HD-2V 1	NM-HD-2VE 2	NM-HDV
VIC (below)							
VIC-2FXO, EU	No	Yes	No	Yes	No	No	No
VIC-2FXO-M1/M2/M3	Yes	Yes	No	Yes	No	No	No
VIC-2FXS	Yes	Yes	No	Yes	No	No	No
VIC-2E/M	Yes	Yes	No	Yes	No	No	No
VIC-2BRI-S/T-TE	No	Yes	No	Yes	No	No	No
VIC-2BRI-NT/TE	Yes	Yes	No	Yes	No	No	No
VIC-2DID	Yes	Yes	No	Yes	Yes	Yes	No
VIC-2CAMA	No	Yes	No	Yes	No	No	No
VIC-1J1	No	No	Yes	No	No	No	Yes
VIC-4FXO-M1	Yes	No	No	No	No	No	No
VIC-4FXS/DID	Yes	No	No	No	Yes ³	Yes ³	No
VIC2-4FXO (FXO/CAMA)	Yes	No	No	No	Yes	Yes	No
VIC2-2FXO (FXO/CAMA)	No	No	No	No	Yes	Yes	No
VIC2-2FXS	No	No	No	No	Yes	Yes	No
VIC2-2E/M	Yes	No	No	No	Yes	Yes	No
VIC2-2BRI-	Yes	No	No	No	Yes	Yes	No

NT/TE							
VWIC-xMFT-E1 (with or without DI)	Yes ⁴	No	Yes	No	No	Yes	Yes
VWIC-1MFT-G703	No	No	No	No	No	No	No
VWIC-2MFT-G703	No	No	Yes	No	No	No	Yes
VWIC-xMFT-T1 (with or without DI)	Yes ⁴	No	Yes	No	No	Yes	Yes

Note:

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked AAL2 on analog ports
 - Universal FXO (VIC2-xFXO) voice cards with software-selectable CAMA
 - Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/DID cards
 - The drop of DSPs on a POTS-to-POTS call that stays within the network module
- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:
 - Modem relay

There is support for the G.168 ECAN in Cisco IOS Software Release 12.3(4)XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

- ³On this platform series and network module type, the VIC-4FXS/DID card currently does not support the DID mode of operation. The voice ports only operate as FXS interfaces. Support for both modes of operation will be available in Cisco IOS Software Release 12.3(14)T. If analog DID is necessary at this time, use the VIC-2DID product instead.
- ⁴The ICS 7750 *does not* support VWIC-2MFT-T1-DI and VWIC-2MFT-E1-DI cards with DI.

Routers/Gateways					
Model	37xx				
Voice Network Module (right)	NM-1V 1 NM-2V	NM-HD-1V 1	NM-HD-2VE	NM-HDV	NM-HDV2

VIC (below)	1	<u>HD-2V</u> ¹	2		
<u>VIC-2FXO, EU</u>	Yes	No	No	No	No
<u>VIC-2FXO-M1/M2/M3</u>	Yes	No	No	No	No
<u>VIC-2FXS</u>	Yes	No	No	No	No
<u>VIC-2E/M</u>	Yes	No	No	No	No
<u>VIC-2BRI-S/TE</u>	Yes	No	No	No	No
<u>VIC-2BRI-NT/TE</u>	Yes	No	No	No	No
<u>VIC-2DID</u>	Yes	Yes	Yes	No	Yes
<u>VIC-2CAMA</u>	Yes	No	No	No	No
<u>VIC-1J1</u>	No	No	No	Yes	Yes
<u>VIC-4FXO-M1</u>	No	No	No	No	No
<u>VIC-4FXS/DID</u>	No	Yes ³	Yes ³	No	Yes ³
VIC2-4FXO (FXO/CAMA)	No	Yes	Yes	No	Yes
VIC2-2FXO (FXO/CAMA)	No	Yes	Yes	No	Yes
VIC2-2FXS	No	Yes	Yes	No	Yes
VIC2-2E/M	No	Yes	Yes	No	Yes
VIC2-2BRI-NT/TE	No	Yes	Yes	No	Yes
<u>VWIC-xMFT-E1 (with or without DI)</u>	No	No	Yes	Yes	Yes
VWIC-1MFT-G703	No	No	No	No	Yes
<u>VWIC-2MFT-G703</u>	No	No	No	Yes	Yes
<u>VWIC-xMFT-T1 (with or without DI)</u>	No	No	Yes	Yes	Yes

Note:

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked AAL2 on analog ports
 - Universal FXO (VIC2-xFXO) voice cards with software-selectable CAMA
 - Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/DID cards

- The drop of DSPs on a POTS-to-POTS call that stays within the network module
- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:
 - Modem relay

There is support for the G.168 ECAN in Cisco IOS Software Release 12.3(4)XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

- ³On this platform series and network module type, the VIC-4FXS/DID card currently does not support the DID mode of operation. The voice ports only operate as FXS interfaces. Support for both modes of operation will be available in Cisco IOS Software Release 12.3(14)T. If analog DID is necessary at this time, use the VIC-2DID product instead.

Routers/Gateways					
Model	3825, 3845				
Voice Network Module (right)	NM-HD-1V ¹	NM-HD-2VE ²	NM-HDV	NM-HDV2	Chassis slot
VIC (below)	2V ¹				
VIC-2FXO-EU	No	No	No	No	No
VIC-2FXO-M1/M2/M3	No	No	No	No	No
VIC-2FXS	No	No	No	No	No
VIC-2E/M	No	No	No	No	No
VIC-2BRI-S/T-TE	No	No	No	No	No
VIC-2BRI-NT/TE	No	No	No	No	No
VIC-2DID	Yes	Yes	No	Yes	Yes
VIC-2CAMA	No	No	No	No	No
VIC-1J1	No	No	Yes	Yes	No
VIC-4FXO-M1	No	No	No	No	No
VIC-4FXS/DID	Yes ³	Yes ³	No	Yes ³	Yes ³
VIC2-4FXO (FXO/CAMA)	Yes	Yes	No	Yes	Yes
VIC2-2FXO (FXO/CAMA)	Yes	Yes	No	Yes	Yes
VIC2-2FXS	Yes	Yes	No	Yes	Yes

VIC2-2E/M	Yes	Yes	No	Yes	Yes
VIC2-2BRI-NT/TE	Yes	Yes	No	Yes	Yes
<u>VVIC-xMFT-E1 (with or without DI)</u>	No	Yes	Yes	Yes	Yes
VVIC-1MFT-G703	No	No	No	Yes	Yes
<u>VVIC-2MFT-G703</u>	No	No	Yes	Yes	Yes
<u>VVIC-xMFT-T1 (with or without DI)</u>	No	Yes	Yes	Yes	Yes

Note:

- ¹The NM-HD-1V and NM-HD-2V have feature parity with the NM-1V and NM-2V. However, there is currently no support on NM-1V and NM-2V for:
 - Trunked AAL2 on analog ports
 - Universal FXO (VIC2-xFXO) voice cards with software-selectable CAMA
 - Any VIC2 cards, such as VIC2-2BRI-NT/TE, VIC2-2FXS, VIC2-2E/M, and VIC-4FXS/DID cards
 - The drop of DSPs on a POTS-to-POTS call that stays within the network module
- ²The NM-HD-2VE interfaces have feature parity with the NM-HDV. However, there is currently no support on the NM-HD-xx for:
 - Modem relay

There is support for the G.168 ECAN in Cisco IOS Software Release 12.3(4) XD, Cisco IOS Software Release 12.3(7)T, and later. There is support for transcoding and conferencing services in Cisco IOS Software Release 12.3(8)T and later.

- ³On this platform series and network module type, the VIC-4FXS/DID card currently does not support the DID mode of operation. The voice ports only operate as FXS interfaces. Support for both modes of operation will be available in Cisco IOS Software Release 12.3(14)T. If analog DID is necessary at this time, use the VIC-2DID product instead.

DSP Module Support Matrix

Routers/Gateways			
Model (right)	1750	1751/1760	<u>VG200</u>
DSP Module (below)			1

AIM-VOICE-30	—	—	No
AIM-ATM-VOICE-30	—	—	No
NM-HDV-FARM	—	—	Yes
PVDM-12	No	No	Yes
DSP-HDA-16	No	No	No
PVDM-4¹	Yes	No	No
PVDM-8¹	Yes	No	No
PVDM-256K-4	No	Yes	No
PVDM-256K-8	No	Yes	No
PVDM-256K-16	No	Yes	No
PVDM-256K-20	No	Yes	No
PVDM-256K-16HD	No	Yes	No
PVDM-256K-20HD	No	Yes	No
PVDM2-8	No	No	No
PVDM2-16	No	No	No
PVDM2-32	No	No	No
PVDM2-48	No	No	No
PVDM2-64	No	No	No

Note:

- ¹These products have reached end of sale. Refer to the [End-of-Sale Announcement for the Cisco VG200 Access Gateway](#).

Routers/Gateways					
Model (right)					
DSP Module (below)	261x, 2x, 5x	2600XM, 2691	2801	2811, 2821, 2851	ICS 7750
AIM-VOICE-30	Yes	Yes	No	No	—
AIM-ATM-VOICE-30	Yes	Yes	No	No	—
NM-HDV-FARM	Yes ²	Yes	No	Yes	—
PVDM-12	Yes	Yes	No	Yes ³	No
DSP-HDA-16	Yes	Yes	No	Yes ⁴	No
PVDM-4¹	No	No	No	No	Yes
PVDM-8¹	No	No	No	No	Yes

PVDM-256K-4	No	No	No	No	Yes
PVDM-256K-8	No	No	No	No	Yes
PVDM-256K-16	No	No	No	No	Yes
PVDM-256K-20	No	No	No	No	Yes
PVDM-256K-16HD	No	No	No	No	No
PVDM-256K-20HD	No	No	No	No	No
PVDM2-8	No	Yes	Yes	Yes	No
PVDM2-16	No	Yes	Yes	Yes	No
PVDM2-32	No	Yes	Yes	Yes	No
PVDM2-48	No	Yes	Yes	Yes	No
PVDM2-64	No	Yes	Yes	Yes	No

Note:

- ¹These products have reached end of sale. Refer to the [End-of-Sale Announcement for the Cisco VG200 Access Gateway](#).
- ²There is support on the 2650 and 2651, but not on the 261x and 262x.
- ³The PVDM-12 only has support on the Cisco 2811, 2821, 2851, 3825, and 3845 when the PVDM-12 is installed on a NM-HDV-FARM or NM-HDV network module. The voice router itself only supports the PVDM2 series of DSP cards.
- ⁴The DSP-HDA-16 only has support on the Cisco 2811, 2821, 2851, 3825, and 3845 when DSP-HDA-16 is installed on a [NM-HDA-4FXS](#) network module. The voice router itself only supports the PVDM2 series of DSP cards.

Routers/Gateways					
Model (right)					
DSP Module (below)	3620	3640/40A	3660	37xx	3825, 3845
AIM-VOICE-	No	No	Yes ²	Yes	No

30					
AIM-ATM-VOICE-30	No	No	Yes ²	Yes	No
NM-HDV-FARM	No	Yes	Yes	Yes	Yes
PVDM-12	Yes	Yes	Yes	Yes	Yes ³
DSP-HDA-16	No	Yes	Yes	Yes	Yes ⁴
PVDM-4 ¹	No	No	No	No	No
PVDM-8 ¹	No	No	No	No	No
PVDM-256K-4	No	No	No	No	No
PVDM-256K-8	No	No	No	No	No
PVDM-256K-16	No	No	No	No	No
PVDM-256K-20	No	No	No	No	No
PVDM-256K-16HD	No	No	No	No	No
PVDM-256K-20HD	No	No	No	No	No
PVDM2-8	No	No	No	Yes	Yes
PVDM2-16	No	No	No	Yes	Yes
PVDM2-32	No	No	No	Yes	Yes
PVDM2-48	No	No	No	Yes	Yes
PVDM2-64	No	No	No	Yes	Yes

Note:

- ¹These products have reached end of sale. Refer to the [End-of-Sale Announcement for the Cisco VG200 Access Gateway](#).
- ²On the Cisco 3660, the AIM-VOICE-30 and AIM-ATM-VOICE-30 products only have support when there is also a [multiservice interchange \(MIX\) daughter card](#) installed.

- ³The PVDM-12 only has support on the Cisco 2811, 2821, 2851, 3825, and 3845 when the PVDM-12 is installed on a NM-HDV-FARM or NM-HDV network module. The voice router itself only supports the PVDM2 series of DSP cards.
- ⁴The DSP-HDA-16 only has support on the Cisco 2811, 2821, 2851, 3825, and 3845 when DSP-HDA-16 is installed on a [NM-HDA-4FXS](#) network module. The voice router itself only supports the PVDM2 series of DSP cards.

Catalyst Support Matrix

This table shows the relationship between Catalyst switches, voice blades, and VICs:

Note: The VICs that are not listed in this matrix do *not* receive support from the Catalyst switches.

Product Name	Catalyst Switches	
	Catalyst 4500/4000 Access Gateway Module	Catalyst 6500/6000 (that runs Catalyst OS [CatOS])
WS-X6608-T1/E1 Provides a high-end T1 gateway to the Public Switched Telephone Network (PSTN) or legacy Private Branch Exchanges (PBXs) and network-based voice services	No	CatOS 5.5 (1)
WS-X6624-FXS Connects legacy analog telephony equipment such as phones, speaker phones, and faxes	No	CatOS 5.5 (3)
WS-X6348-RJ45V Inline power 10/100BASE-T Ethernet switching modules. Equivalent to a WS-X6348-RJ45 10/100BASE-T Ethernet switching module with inline power daughter module WS-F6K-VPWR=	No	CatOS 5.5 (1)
WS-SVC-CMM Provides up to 18 T1/E1 gateways to the PSTN or legacy PBXs and network-based	No	CatOS 7.3 (1)

voice services		
WS-X4148-RJ45V Inline power 10/100BASE-T Ethernet switching modules	CatOS 6.1 (1)	No
VIC-2FXS Two-port FXS VIC	Cisco IOS Software Release 12.1(3a)XI	No
VIC-2FXO Two-port FXO VIC	Cisco IOS Software Release 12.1(3a)XI	No
VIC-2FXO-EU Two- port FXO for Europe	Cisco IOS Software Release 12.1(3a)XI	No
VIC-2BRI-S/T-TE Two-port ISDN BRI VIC, S/T interface, terminal equipment	Yes	No
VVIC-1MFT-T1 One- port RJ-48 multiflex trunk T1	Cisco IOS Software Release 12.1(3a)XI	No
VVIC-2MFT-T1 Two- port RJ-48 multiflex trunk T1	Cisco IOS Software Release 12.1(3a)XI	No
VVIC-2MFT-T1-DI Two-port RJ-48 multiflex trunk E1 with DI	Cisco IOS Software Release 12.1(3a)XI	No
VVIC-1MFT-E1 One- port RJ-48 multiflex trunk E1	Cisco IOS Software Release 12.1(3a)XI	No
VVIC-2MFT-E1 Two- port RJ-48 multiflex trunk E1	Cisco IOS Software Release 12.1(3a)XI	No
VVIC-2MFT-E1-DI Two-port RJ-48 multiflex trunk E1 with DI	Cisco IOS Software Release 12.1(3a)XI	No

Note: The Cisco IOS Software releases provided are typically the minimum version necessary to support the platform, module, or feature in question. For a complete list of Cisco IOS Software releases that support a feature, module, interface card, or chassis, use the [Software Advisor](#) ([registered](#) customers only) tool.


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