

## Table of Contents

The Cisco 3700 Series is a new line of modular routers that enable flexible and scalable deployment of new applications in an integrated branch office access platform. The Cisco 3700 Series is ideal for sites and solutions requiring the highest levels of integration at the branch for branch office IP Telephony, voice gateway, and integrated flexible routing with low-density switching solutions. Integrated security, intrusion detection, and VPN protect the network at the perimeters, while integrated caching conserves WAN bandwidth. The Cisco 3700 Series provides a consolidated service infrastructure and high service density in a compact form factor that enables the incremental incorporation of branch applications.

### Base Models

[CISCO3725](#)

[CISCO3745](#)

### Network Modules

[Etherswitch Network Modules](#)

[1 and 4 Ethernet Network Modules](#)

[NM-1FE-TX](#)

[NM-1FE-FX / NM-1FE-FX-V2](#)

[Ethernet LAN/WIC Network Modules](#)

[Fast Ethernet LAN/WIC Network Modules](#)

[WIC Network Modules](#)

[4 and 8 ISDN BRI Network Modules](#)

[Async/Sync Network Modules](#)

[4 port Serial Network Module](#)

[16 and 32 Port Async Network Modules](#)

[1&2 ISDN PRI/Channelized E1 Network Module](#)

[1 Fast Ethernet Plus Channelized E1/PRI Network Modules](#)

[Digital Modem Network Modules](#)

[Analog Modem Network Modules](#)

[HSSI Network Module](#)

[Voice Network Modules](#)

[High Density Voice Network Module](#)

[NM-CUE](#)

[NM-CUE-EC](#)

[EtherSwitch Service Module](#)

[High Density Analog Voice Network Module](#)

[ATM E1 IMA Network Modules](#)

[ATM/25 Mbps Network Module](#)

[ATM E3 Network Modules](#)

[ATM OC-3 Network Modules](#)

[ATM OC-3 CES Network Modules](#)

[1 T3/E3 Network Module](#)

[1CE1T1-PRI & 2CE1T1-PRI Network Modules](#)

[Gigabit Ethernet Network Module](#)

[Compression Network Module](#)

[Alarm Interface Controller Network Module](#)

[Content Engine Network Modules](#)

[Intrusion Detection Network Modules](#)

[Circuit Emulation over IP Network Module](#)

### WAN Interface Cards

[WIC-1T](#)

[WIC-2T](#)

[WIC-2A/S](#)

[WIC-1ADSL](#)

[WIC-1SHDSL](#)

[WIC-1SHDSL-V2](#)

[WIC-1SHDSL-V3](#)

[WIC-1B-S/T-V3](#)

[WIC-1AM](#)

[WIC-2AM](#)

[WIC-1DSU-T1-V2](#)

### Voice Interface Cards

[VIC-2E/M](#)

[VIC2-2E/M](#)

[VIC-2FXS](#)

[VIC2-2FXS](#)

[VIC-4FXS/DID](#)

[VIC-2FXO](#)

[VIC2-2FXO](#)

[VIC2-4FXO](#)

[VIC-2BRI-NT/TE](#)

[VIC-2DID](#)

[VWIC-1MFT-E1](#)

[VWIC-2MFT-E1](#)

[VWIC-2MFT-E1-DI](#)

[VWIC-1MFT-G703](#)

[VWIC-2MFT-G703](#)

[2nd Generation VWIC](#)

[Echo cancellation module](#)

### AIM's

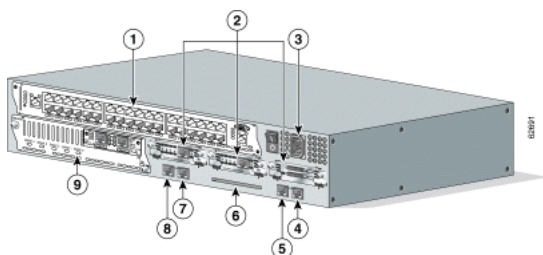
[Compression](#)

[Encryption](#)

[ATM / Voice DSP](#)

[AIM-CUE](#)

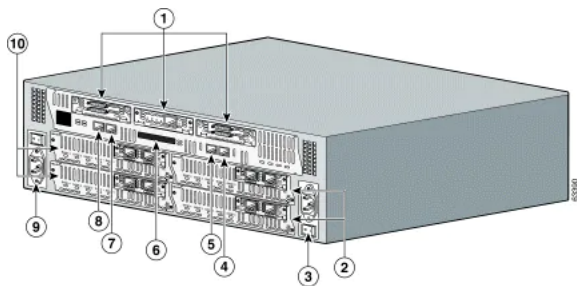
## CISCO3725



- Double-width network module slot
- WAN Interface card slots (3 WIC slots)
- Power supply
- Auxiliary port
- Console port
- Compact Flash slot
- Fast Ethernet 0/0
- Fast Ethernet 0/1
- Single-width network module slot

[Return to Top](#)

## CISCO3745

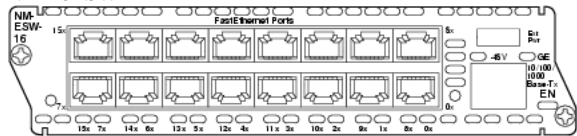


- WAN Interface card slots (3 WIC slots).
- Network modules
- Power supply
- FastEthernet 0/0
- FastEthernet 0/1
- Cisco 3700 Compact Flash slot
- Auxiliary port
- Console port
- Power supply
- Network modules

[Return to Top](#)

Etherswitch Network Modules

NM-16ESW



NMD-36-ESW



Etherswitch Network Modules

Product	Description	Features				
NM-16ESW	16 port 10/100 EtherSwitch NM					
GE-DCARD-ESW	1000BaseT daughtercard for Etherswitch NM	<ul style="list-style-type: none"> <li>• 16 Full/Half duplex 10BaseT/100BaseTX Ports with auto detect.</li> <li>• 36 Full/Half duplex 10BaseT/100BaseTX Ports with auto detect on a double-wide network module ( network module support: 3660, 3725, or 3745).</li> <li>• QoS and VLAN support from 802.1P and 802.1Q standards. No ISL support.</li> <li>• 802.1D Spanning Tree protocols.</li> <li>• Optional Additional GE Port(s).</li> <li>• Optional In-Line Power.</li> </ul>				
PPWR-DCARD-16ESW	Power daughtercard for 16 port Etherswitch NM					
NMD-36-ESW	36 port 10/100 EtherSwitch Double-wide NM					
PPWR-DCARD-36ESW	Inline power daughtercard for 36 port EtherSwitch NM					

Platform Support

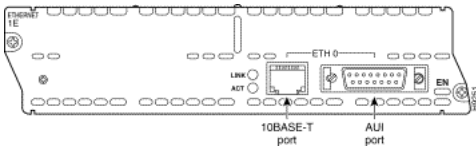
IOS Support	2600	2600XM	3620	3631	3640, 3640A	3660, 3725, 3745
NM-16ESW	12.2(8)T, 12.3(1)	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2(8)T, 12.3(1)	12.2(8)T1, 12.3(1), 12.3(2)T	12.2(8)T, 12.3(1), 12.3(2)T	12.2(8)T, 12.2(11)YT
NMD-36-ESW	Not supported	Not supported	Not supported	Not supported	Not supported	

Requires an IOS "Plus" image, or a Telco image listed below. In IOS 12.3, EtherSwitch Network Modules are supported in all of the new "Reformation" feature sets for the Advanced Enterprise Services, Advanced IP Services, Advanced Security, IP Base, IP Voice, yEnterprise Base, Enterprise Services, SP Services).

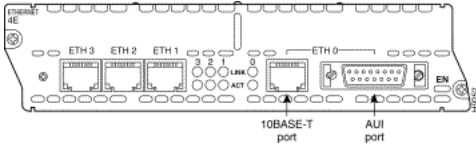
[Return to Top](#)

1 and 4 Ethernet Network Modules

NM-1E



## NM-4E



### 1 and 4 Ethernet Network Modules

#### Product Description

**NM-1E** One 10 Mbps ethernet network module

**NM-4E** Four 10 Mbps ethernet network module

#### Features

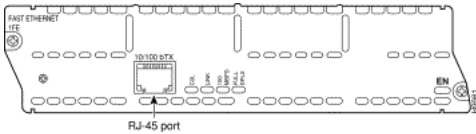
- Ethernet 0 has both 10 Base-T and AUI connectors(auto sensing). Supports half duplex in all IOS versions.
- Supports full duplex beginning with IOS 12.0(4)T.

### Platform Support

IOS Support	2600	2600XM	3620, 3640	3631	3660	2691, 3725, 3745
NM-1E	11.3(4)T1, all 12.x	All IOS versions	11.2(4)XA, 11.2(5)P, 11.3, 11.3T, all 12.x	Not Supported	All IOS versions	Not Supported
NM-4E	11.3(4)T1, all 12.x	All IOS versions	11.2(6)P, 11.3, 11.3T, all 12.x	Not supported	All IOS versions	Not Supported

[Return to Top](#)

### NM-1FE-TX - [End Of Sale](#)



### NM-1FE-TX

#### Product Description

**NM-1FE-TX** 10/100 Mbps Fast Ethernet Network Module, 100 Base-TX

#### Features

- RJ-45 100 Base-TX interface (no MII port)
- 10 or 100 Mbps speed, auto sensing.
- Full or half duplex, auto-negotiating (at 10 MBPS and 100 MBPS).
- ISL is supported in hardware, requires "Plus" Feature set.

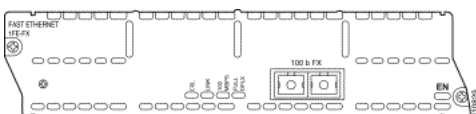
### Platform Support

IOS Support	2600, 2600XM	2800	3620	3631	3640	3660
NM-1FE-FX	Not Supported	Not Supported	11.3(1)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1)	Not Supported	11.3(1)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1), 12.3(2)T	12.0(5)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.2(11)YT, 12.3(1), 12.3(2)T
NM-1FE-FX-V2	Not Supported	Not Supported	12.0(24), 12.1(17), 12.2(13), 12.2(13)T, 12.2(13)T	Not Supported	12.0(24), 12.1(17), 12.2(13), 12.2(13)T, 12.3(1), 12.3(2)T	12.1(17), 12.2(13), 12.2(13)T, 12.3(1), 12.3(2)T

VLAN support requires a Cisco IOS "Plus" feature set prior to Cisco IOS 12.3 Mainline. After 12.3 Mainline, supported in Cisco IOS advanced security feature

[Return to Top](#)

### NM-1FE-FX / NM-1FE-FX-V2



### Ethernet LAN/WIC Network Modules

#### Product

#### Description

#### Features

**NM-1FE-FX** 100 Mbps Fast Ethernet Network Module, 100 Base-FX.

- Fiber optic 100 Base-FX interface (no MII port), 100 Mbps only. Does not negotiate duplex. Use full-duplex to configure full duplex, or no full duplex. ISL is supported in hardware, requires "Plus" Feature set.

**NM-1FE-FX-V2** Provides a single auto-sensing 10/100BASE-FX connection via a . ber

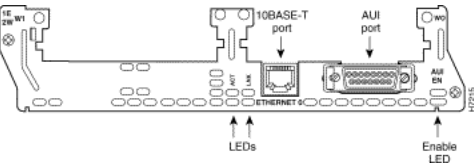
**Platform Support**

IOS Support	2600, 2600XM	2800	3620	3631	3640	3660
NM-1FE-FX	Not Supported	Not Supported	11.3(1)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1)	Not Supported	11.3(1)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1), 12.3(2)T	12.0(5)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.2(11)YT, 12.3(1), 12.3(2)T
NM-1FE-FX-V2	Not Supported	Not Supported	12.0(24), 12.1(17), 12.2(13), 12.2(13)T, 12.2(13)T	Not Supported	12.0(24), 12.1(17), 12.2(13), 12.2(13)T, 12.3(1), 12.3(2)T	12.1(17), 12.2(13), 12.2(13)T, 12.3(1), 12.3(2)T

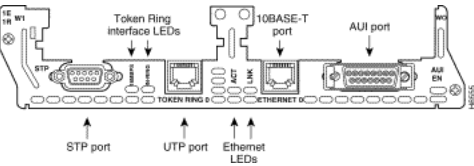
[Return to Top](#)

**Ethernet LAN/WIC Network Modules**

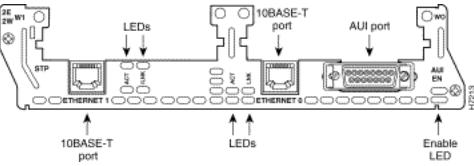
**NM-1FE2W - End Of Sale**



**NM-2FE2W - End Of Sale**



**NM-2E2W - End Of Sale**



**Ethernet LAN/WIC Network Modules**

Product	Description	Features
NM-1E2W	1 ethernet, 2 WIC slots network module	• Ethernet 10 Mbps only, Ethernet 0 has both 10 Base-T and AUI connectors (auto sensing) and Ethernet 1 on the NM-2E2W. Supports half-duplex in all IOS versions and full-duplex beginning with IOS 12.0(4)T.
NM-1E1R2W	1 ethernet, 1 token ring, 2 WIC slots network module	• Token Ring 0 has both STP and UTP (auto sensing), No full duplex support.
NM-2E2W	2 ethernet, 2 WIC slots network module	• Two WAN Interface Card (WIC) slots

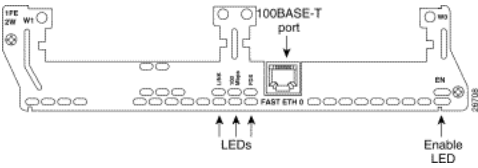
**Platform Support**

IOS Support	2600, 2600XM	3620, 3640, 3660	3631	3660	2691, 3725, 3745
NM-1E2W	Not Supported	All IOS versions	Not Supported	All IOS versions	Not Supported
NM-1E1R2W	Not Supported	11.1(8)AA, 11.2(4)XA, 11.2(5)P, 11.3, 11.3T, all 12.x	Not Supported	All IOS versions	Not Supported
NM-2E2W	Not Supported	All IOS versions	Not Supported	All IOS versions	Not Supported

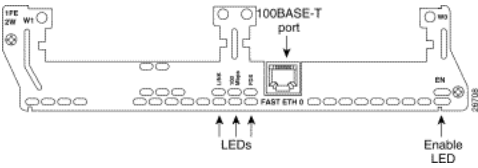
[Return to Top](#)

**Fast Ethernet LAN/WIC Network Modules**

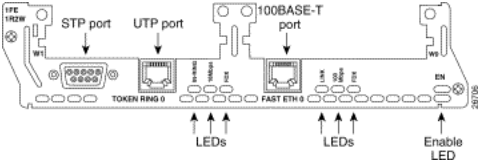
NM-1FE2W - [End Of Sale](#)



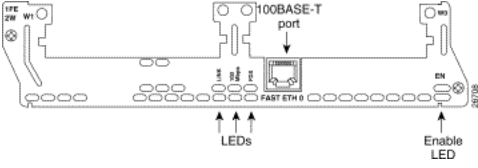
NM-2FE2W - [End Of Sale](#)



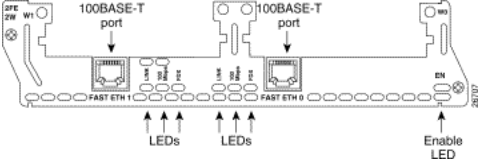
NM-1FE1R2W



NM-1FE2W-V2



NM-2FE2W-V2



Fast Ethernet LAN/WIC Network Modules

Product	Description	Features
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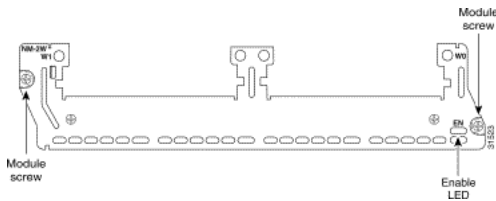
Product	Description	Features
NM-1FE2W	Network Module with 1 fast ethernet, 2 WIC slots	<ul style="list-style-type: none"><li>Fast Ethernet<ul style="list-style-type: none"><li>RJ-45 connector, 100-Base-TX only</li><li>Supports 10 and 100 Mbps, auto-sensing.</li><li>Supports full and half duplex</li><li>Supports ISL and Token Ring ISL in hardware (ISL requires a "Plus" feature set)</li><li>Does not support fast etherchannel</li></ul></li><li>Token Ring<ul style="list-style-type: none"><li>RJ-45 and DB-9 connector (only one may be used at a time)</li><li>Supports full duplex token ring</li></ul></li><li>Customers are encouraged to migrate to the Cisco NM-1FE2W-V2 and NM-2FE2W-V2. These newer LAN/WIN mixed media are identical to the NM-1FE2W and NM-2FE2W in terms of features, functions, and performance with the important difference of Cisco IOS ® Software releases supported.</li></ul>
NM-1FE1R2W	Network Module with 1 fast ethernet, 1 token ring, 2 WIC slots	
NM-2FE2W	Network Module with 2 fast ethernet, 2 WIC slots	
NM-1FE2W-V2	Network Module with 1 fast ethernet, 2 WIC slots	
NM-2FE2W-V2	Network Module with 2 fast ethernet, 2 WIC slots	

Platform Support

IOS Support	2600, 2600XM 2800	3620, 3640, 3660	3631	2691, 3725, 3745	3800
NM-1FE1R2W	Not Supported	Not Supported	12.0(7)XK, 12.1(1)T, 12.2, 12.2T	Not Supported	All IOS versions 12.3(11)T
NM-1FE2W	Not Supported	Not Supported	12.0(7)XK, 12.1(1)T, 12.2, 12.2T	Not Supported	All IOS versions 12.3(11)T
NM-2FE2W	Not Supported	Not Supported	12.0(7)XK, 12.1(1)T, 12.2, 12.2T	Not Supported	All IOS versions 12.3(11)T
NM-1FE2W-V2	Not Supported	Not Supported	12.2(12)M, 12.3M and 12.2(13)T3	Not Supported	12.2(12)M, 12.3M and 12.2(13)T3 12.3(11)T
NM-2FE2W-V2	Not Supported	Not Supported	12.2(12)M, 12.3M and 12.2(13)T3	Not Supported	12.2(12)M, 12.3M and 12.2(13)T3 12.3(11)T

[Return to Top](#)

## WIC Network Module



## WIC Network Module

### Product Description

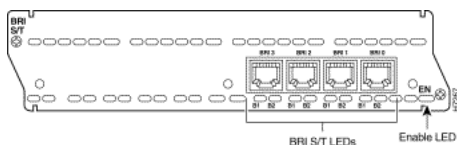
NM-2W Network Module with 2 WIC slots.

## Platform Support

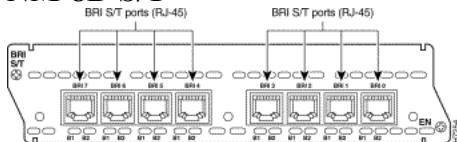
IOS Support	2600	2800	2600XM	3620, 3640, 3660	3631	2691, 3725, 3745	3800
NM-2W	12.0(7)XK, 12.1(1)T, 12.2, 12.2T	Not Supported	12.2(8)T1	12.0(7)XK, 12.1(1)T, 12.2, 12.2T	Not Supported	All IOS versions	12.3(11)T

## 4 and 8 ISDN BRI Network Modules

## NM-4B-S/T



## NM-8B-S/T



## 4 and 8 ISDN BRI Network Modules

### Product Description

NM-4B-S/T 4-Port ISDN-BRI Network Module

NM-8B-S/T 8-Port ISDN-BRI Network Module

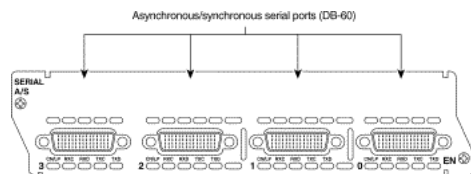
## Platform Support

IOS Support	2600	2600XM	2801	2811,2821,2851	3620, 3640	3631	3660	2691, 3725, 3745	3800
NM-4B-S/T	11.3(4)T, all 12.x	All IOS versions	Not Supported	12.3(8)T	All IOS versions	All IOS versions	12.0(7)XK, 12.1T, 12.2, 12.2T	All IOS versions	12.3(
NM-8B-S/T	11.3(4)T, all 12.x	All IOS versions	Not Supported	12.3(8)T	All IOS versions	All IOS versions	12.0(7)XK, 12.1T, 12.2, 12.2T	All IOS versions	12.3(

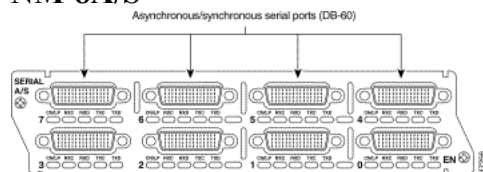
[Return to Top](#)

## Async/Sync Network Modules

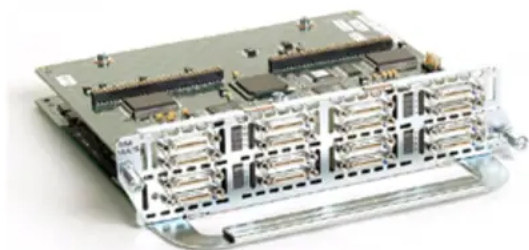
## NM-4A/S



## NM-8A/S



## NM-16A/S



### 4 and 8 ISDN BRI Network Modules

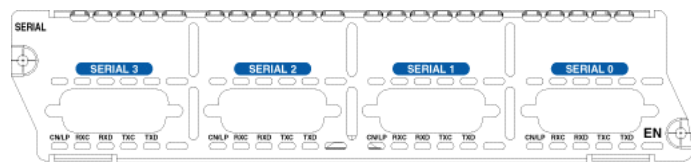
Product	Description	Features
NM-4A/S	4 port Async/Sync Network Module	<ul style="list-style-type: none"> <li>Four, Eight or 16 Async/Sync Ports</li> <li>NM-4A/S and NM-8A/S use Cisco 60-pin "5-in-1" connectors</li> <li>NM-16A/S uses Smart Serial connectors (same as WIC-2T)</li> <li>Max speed 115.2 KBPS async, 128 Kbps sync external clock, 125 Kbps internal clock</li> </ul>
NM-8A/S	8 port Async/Sync Network Module	
NM-16A/S	16 port Async/Sync Network Module	

### Platform Support

IOS Support	2600	2600XM	2801	2811,2821,2851	3620, 3640	3631	3660	2691, 3725, 3745	3800
NM-4A/S	All IOS versions		Not Supported		12.3(8)T		All IOS versions		12.3(11)T
NM-8A/S	Not supported		12.2(15)ZJ		Not supported		12.2(15)ZJ		12.2(15)ZJ
NM-16A/S	Not supported		12.2(15)ZJ		Not supported		12.2(15)ZJ		12.2(15)ZJ

[Return to Top](#)

### 4 Serial Network Module



### 4 Serial Network Module

Product	Description	Features
NM-4T	4 port Synchronous Serial Network Module	<ul style="list-style-type: none"> <li>Four serial ports.</li> <li>Cisco DB-60 connectors.</li> <li>The module provides a synchronous data rate of 8 MB/sec on port 0, 4 MB/sec each on port 0 and port 2, or 2 MB simultaneously.</li> <li>No bisync or half-duplex support.</li> </ul>

### Platform Support

IOS	2600,	2811,	3620	3640	3631	3660	2691, 37
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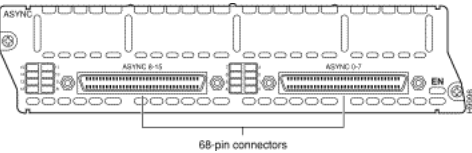
Support 2600XM 2821, 2851

NM-4T	Not supported	11.2(4)XA, 11.3(1), 11.3(1)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1)	11.2(4)XA, 11.3(1), 11.3(1)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1), 12.3(2)T	12.2(13)T, 12.3(1), 12.3(2)T	12.0(5)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2(13), 12.2(11), 12.3(1),

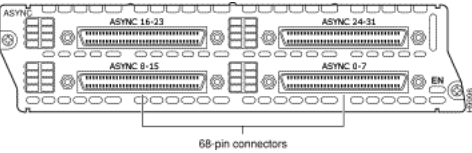
[Return to Top](#)

16 and 32 Port Async Network Modules

NM-16A



NM-32A



16 and 32 Port Async Network Modules

Product Description Features

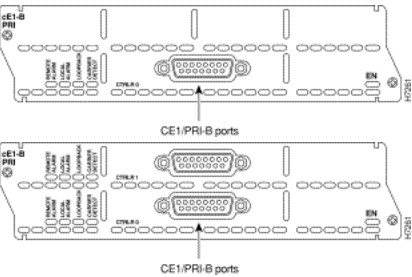
NM-16A 16 Async Ports	<ul style="list-style-type: none"><li>16 or 32 async ports</li></ul>
NM-32A 32 Async Ports	<ul style="list-style-type: none"><li>Uses 68-pin connectors with the same cabling and connectors as the 2509 (CAB-OCTAL-xxxx or CAB-25AS-xxxx).</li><li>Supports 134 kbps async on all ports simultaneously.</li></ul>

Platform Support

IOS Support	2600	2600XM 2801	2811,2821,2851 3620	3640	3631	3660	2691, 3741
NM-16A	11.3(3)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1)	12.1(14), 12.2(12), 12.3(8)T 12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supporte	12.3(8)T 11.2(7)P, 11.3(1), 11.3(1)T, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1)	12.2(8)T1, 12.3(1), 12.3(2)T	12.0(5)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2, 12.2, 12.3, 12.3

[Return to Top](#)

1 & 2 ISDN PRI/Channelized E1 Network Module



1 & 2 ISDN PRI/Channelized E1 Network Module

Product Description

NM-1CE1B	1-Port Channelized E1/ISDN-PRI Network Module, 120 ohm balanced
NM-2CE1B	2-Port Channelized E1/ISDN-PRI Network Module, 120 ohm balanced
NM-1CE1U	1-Port Channelized E1/ISDN-PRI Network Module, 75 ohm unbalanced
NM-2CE1U	2-Port Channelized E1/ISDN-PRI Network Module, 75 ohm unbalanced

Features

- One or Two E1 ports
- Supports Channelized E1 or ISDN PRI. Each port is configured independantly. You can configun and the other for channelized E1.
- Supports framed G.704. For unframed G.703 see the VWIC-1MFT-G703.
- Available in balanced 120 ohm and unbalanced 75 ohm (different physical hardware, cannot be u field).
- Interface is DB-15



IOS Support	2600	2600XM	3620, 3640	3631	3660	2691, 3725, 3745
NM-1CE1B / NM-2CE1B	11.3(4)T, all 12.x	All IOS versions	All IOS versions	All IOS versions	12.0(7)XK, 12.1T, 12.2, 12.2T	All IOS versions
NM-1CE1U / NM-2CE1U						

## 1 Fast Ethernet Plus Channelized E1/PRI Network Modules

[illegible]

Product	Description	Features
<b>NM-1FE1CE1B</b>	One-port 10/100BaseTX Ethernet with one-port E1 PRI/Channelized Balanced mode (120 ohm)	<ul style="list-style-type: none"> <li>• RJ-45 10 or 100 Mbps speed, auto sensing (no MII port, no fiber option). Full or half duplex negotiating (at 10 MBPS and 100 MBPS)</li> </ul>
<b>NM-1FE2CE1B</b>	One-port 10/100BaseTX Ethernet with two-port E1 PRI/Channelized Balanced mode (120 ohm)	<ul style="list-style-type: none"> <li>• Supports Channelized E1 or ISDN PRI. Each port is configured independantly. You can use one port for ISDN and the other for channelized E1.</li> <li>• Supports framed G.704. For unframed G.703 see the VWIC-1MFT-G703.</li> </ul>
<b>NM-1FE1CE1U</b>	One-port 10/100BaseTX Ethernet with one-port E1 PRI/Channelized Unbalanced mode (75 ohm)	<ul style="list-style-type: none"> <li>• These network modules can be field configured to balanced (120 ohm) or unbalanced mode by changing jumpers on the network module.</li> </ul>
<b>NM-1FE2CE1U</b>	One-port 10/100BaseTX Ethernet with two-port E1 PRI/Channelized Unbalanced mode (75 ohm)	<ul style="list-style-type: none"> <li>• Interface is DB-15</li> </ul>

IOS Support	2600	2600XM	3620, 3640	3631	3660	2691
NM-1FE1CE1B / NM-1FE2CE1B	Not supported	Not supported	11.3(4)T1, 12.0(1)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	Not supported	12.0(7)XK, 12.1T, 12.2, 12.2T	Not supported
NM-1FE1CE1U / NM-1FE2CE1U	Not supported	Not supported	11.3(4)T1, 12.0(1)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	Not supported	12.0(7)XK, 12.1T, 12.2, 12.2T	Not supported

## Digital Modems

The front panel features a row of ten vertical slots labeled "DIGITAL MODEMS". Below these are four sets of three horizontal slots each, labeled "MICA BANK 0", "MICA BANK 1", "MICA BANK 2", and "MICA BANK 3". To the right of these is a single horizontal slot labeled "EN". The panel also includes a power button on the left and a reset button on the right.

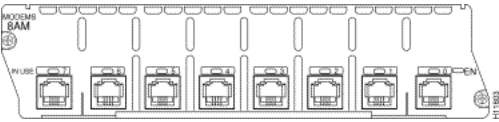
Product	Description	Features
<b>NM-6DM - NM30DM</b>	Network Module with 6 to 30 digital modems in increments of 6. Field upgradeable in increments of 6 using MICA-6MOD=. Takes voice calls from T1, E1 and ISDN BRI (from a BRI network module, not a WIC) and routes them to the modems.	<ul style="list-style-type: none"> <li>• Supports out, fax n</li> </ul>
<b>MICA-6MOD=</b>	Modem card with 6 modems (same as 6DM=)	

IOS Support	2600, 2600XM, 2691	3620	3631	3640	3660	3725, 3745
NM-6DM - NM-30DM	Not supported	11.3(4)T1, 12.0T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	Not supported	11.2(9)XA, 11.2(10)P, 11.3(2)T, all 12.x	12.0(7)XK, 12.1T, 12.2, 12.2T	All IOS versions

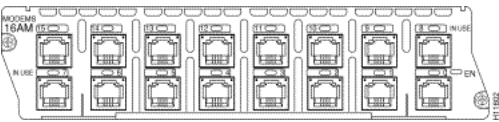
[Return to Top](#)

Analog Modem Network Modules

NM-8AM



NM-16AM



Analog Modem Network Modules

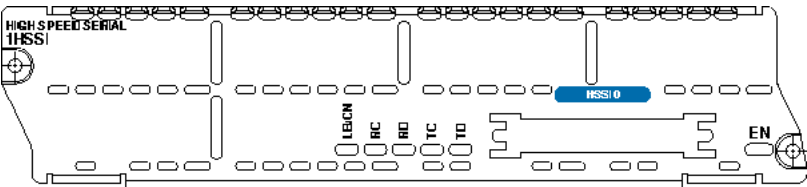
Product	Description	Features
NM-8AM	Network Module with 8 analog modems	<ul style="list-style-type: none"><li>Supports speeds up to 33.6 kbps (V.34bis). No 56 kbps support.</li><li>Two wire leased line is supported beginning in 12.1(5)T with firmware version 1.2.8.</li><li>Supports fax-out utilizing the Cisco Dial-Out Client.</li><li>All connectors are RJ-11. Comes with 8 or 16 pink cables (bundle of pink cables is available as CAB-NM-ANALOG)</li></ul>
NM-16AM	Network Module with 16 analog modems	
NM-8AM-V2	Network Module with 8 analog modems	<ul style="list-style-type: none"><li>8 or 16 internal V.34/V.92/V.90/V.44/V.42bis analog modems per network module</li><li>Up to 56 Kbps data download and 14.4 Kbps fax communication</li><li>V.92 Quick Connect and Modem-on-Hold features</li><li>Centrally managed modem capabilities Simple Network Management Protocol (SMNP) based tools used to manage the (such as CiscoView and Cisco Works 2000)</li></ul>
NM-16AM-V2	Network Module with 16 analog modems	

Platform Support

IOS Support	2600	2600XM	2801	2811,2821,2851	3620	3631
NM-6DM - NM-30DM	Not supported	11.3(4)T1, 12.0T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	Not supported	11.2(9)XA, 11.2(10)P, 11.3(2)T, all 12.x	12.0(7)XK, 12.1T, 12.2, 12.2T	All IC versio

[Return to Top](#)

NM-1HSSI



NM-1HSSI

Product	Description	Features
NM-1HSSI	1 HSSI Port Network Module	<ul style="list-style-type: none"><li>Similar the PA-H.</li><li>Uses Cisco Mueselix serial controller</li><li>Supports speeds up to 45 Mbps</li></ul>

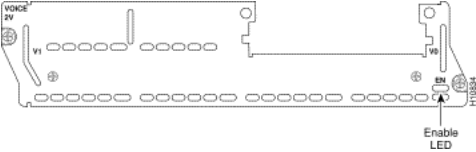
Platform Support

IOS Support	2600, 2600XM	2801	2811,2821,2851	3620, 3640	3631	3660	2691, 3725, 3745	3800
NM-1HSSI	Not Supported	Not Supported	12.3(8)T	11.3(5)T, all 12.x	All IOS versions	All IOS versions	All IOS versions	12.3(11)T

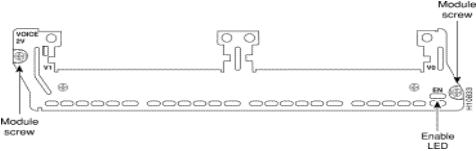
[Return to Top](#)

Voice Network Modules

NM-1V



NM-2V



NM-1HSSI

Product Description

NM-1V Voice Network Module with one Voice Interface Card (VIC) slot  
NM-2V Voice Network Module with two Voice Interface Card (VIC) slots

Features

- Voice features require a "Plus" feature set.

Platform Support

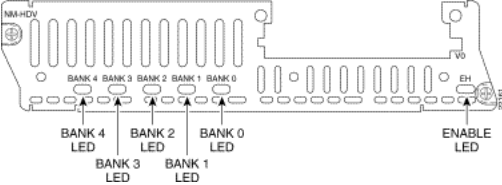
IOS Support	2600, 2600XM	3620, 3640	3631	3660	2691, 3725, 3745
NM-1V	All IOS versions 11.3(1)T, all 12.x Not supported				
NM-2V	All IOS versions				

Voice features require a "Plus" feature set.

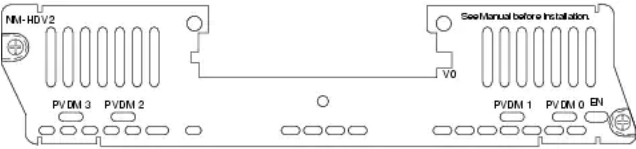
[Return to Top](#)

High Density Voice Network Module

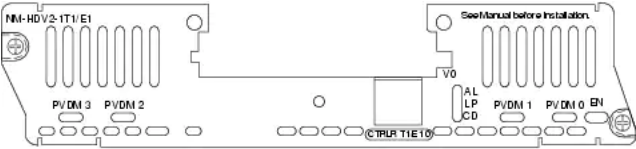
NM-HDV



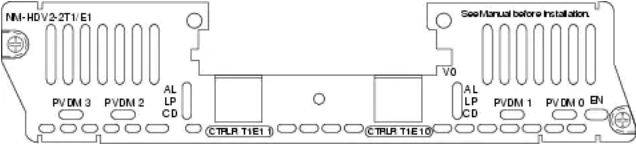
NM-HDV2



NM-HDV2-1T1/E1



NM-HDV2-2T1/E1



NM-1HSSI

Product	Description	Features
NM-HDV	High Density Voice Network Module (no VWIC, no PVDMs)	
NM-HDV-1E1-12	High Density Voice Network Module, with 1 VWIC-1MFT-E1 and 1 PVDM-12	<ul style="list-style-type: none"><li>Each PVDM-12 contains 3 DSPs<ul style="list-style-type: none"><li>Runs up to 12 voice calls using a low complexity CODEC (G.711, G.729a/b, G.726, fax)</li><li>Runs up to 6 voice calls using a high complexity CODEC (G.729, G.728, G.723.1).</li><li>PVDM-12 fits into SIMM sockets on the NM-1HDV network module, five PVDM SIMM sockets on the NM-1HDS network module</li></ul></li><li>Requires an IOS "Plus" feature set.</li></ul>
NM-HDV-1E1-30	High Density Voice Network Module, with 1 VWIC-1MFT-E1 and 3 PVDM-12	
NM-HDV-1E1-30E	High Density Voice Network Module, with 1 VWIC-1MFT-E1 and 5 PVDM-12	
NM-HDV-2E1-60	High Density Voice Network Module, with 1 VWIC-2MFT-E1-DI and 5 PVDM-12	
PVDM-12	12-Channel Packet Voice DSP Module	
NM-HDV2	IP Communications high-density voice and fax network module.	<ul style="list-style-type: none"><li>PVDM2-x, where x equals the number of channels supported using the G.711 codec. x has the values 8, 16, 32, 48, 64.<ul style="list-style-type: none"><li>Supports the following high complexity codecs: G.723.1, G.728, G.729, G.729b, Global Scaleable Communications (GSM)-enhanced full rate and Modem Relay.</li><li>Supports the following medium level codecs: G.711, G.729a, G.729ab, G.726, GSM-Fu Fax Relay.</li></ul></li><li>Requires "IP Plus" and higher feature set.</li></ul>
NM-HDV2-1T1/E1	1-port T1/E1 IP Communications high-density voice and fax network module.	
NM-HDV2-2T1/E1	2-port T1/E1 IP Communications high-density voice and fax network module.	
PVDM2-x	Packet Voice digital signal processor Module. Provides high-density voice connectivity, conferencing, and transcoding capabilities.	

Note: VDM and PVDM2 are NOT interchangeable. Use the PVDM with NM-HDV only, and use PVDM2 with NM-HDV2 only.

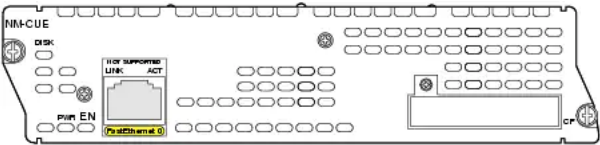
Platform Support

IOS Support	2600	2600XM	2801	2811,2821,2851	3620, 3640	3631	3660	2691, 3745
NM-HDV	12.0(7)XK, 12.1(2)T, 12.2, 12.2T	12.2(8)T1	Not Supported	12.3(8)T	12.0(7)XK, 12.1(2)T, 12.2, 12.2T	Not supported	12.0(7)XK, 12.1(2)T, 12.2, 12.2T	All IOS versions
NM-HDV2		12.3(7)T						12.3(11)T
NM-HDV2-1T1/E1	Not Supported	12.3(8)T for conferencing or transcoding	Not Supported	12.3(8)T4	Not Supported			12.3(11)T for conferencing or transcoding
NM-HDV2-2T1/E1								

[Return to Top](#)

Cisco Unity Express Network Module

NM-CUE



Cisco Unity Express Network Module

Product Description	Features
NM-CUE	The Cisco Unity Express network module is fully self-contained with dedicated onboard processing, memory and storage, allowing for efficient message handling, a range of concurrent sessions, simultaneous processing, and ample voice mail storage capacity for a wide range of typical branch office profiles.

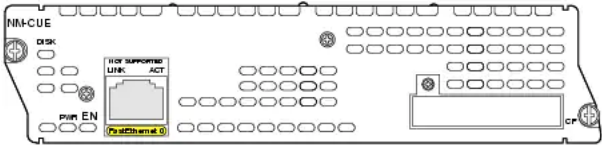
Platform Support

Platform	2600	2600XM	2801	2811,2821,2851	3620,3631,3640,3640A,3660	2691, 3725, 3745	3800
IOS Support	Not Supported	12.3(4)T	Not Supported	12.3(8)T	Not Supported	12.3(4)T	12.3(11)T

[Return to Top](#)

Cisco Unity Express Network Module

NM-CUE-EC



Cisco Unity Express Network Module  
Product Description

NM-CUE-EC The Cisco Unity Express network module is fully self-contained with dedicated onboard processing, memory and storage, allowing for efficient message handling, a range of concurrent sessions, simultaneous processing, and ample voice mail storage capacity for a wide range of typical branch office profiles.

- Features**
- supports up to 16 ports of concurrent automated-attendant sessions and mailboxes (new with Release 2.1)

Platform Support

Platform	2691	2600XM	2801	2811,2821,2851	3725,3745	3825, 3845	3800
IOS Support	Yes	Yes	Not Supported	Yes	Yes	Yes	12.3(11)T

Mimumum of Release 12.3(11)T5, 12.3(14)T1, 12.4(1) IOS release and Unity Express 2.1;

[Return to Top](#)

Etherswitch Service Module (NME-16ES-1G, NME-16ES-1G-P, NME-X-23ES-1G, NME-X-23ES-1G-1P, NME-XD-24ES-1S-P, NME-XD-48ES-2S-P)



The new Cisco EtherSwitch service modules, greatly expand the capabilities of integrated switching within Cisco routers by providing support for new features such as IEEE 802.3af PoE, local Layer 3 switching, Cisco Network Assistant and Cisco Emergency Responder, and Cisco StackWise™ interfaces (available on NME-XD-24-1S-P software feature parity with Cisco Catalyst® 3750 Series switches

Cisco EtherSwitch service modules run their own software, independent of the router's Cisco IOS® Software image, allowing for easy upgrades and ongoing software feature parity with Cisco Catalyst 3750 Series switches

Etherswitch Service Module

Product	NME-16ES-1G	NME-16ES-1GP	NME-X-23ES-1G	NME-X-23ES-1G-1P	NME-XD-24ES-1S-P	NME-XD-48ES-2S-P
Cisco pre-standard PoE support and IEEE 802.3af PoE	No	Yes*	No	Yes*	Yes*	Yes
Minimum Cisco IOS Software release for Cisco EtherSwitch service module	12.2(25)SEC	12.2(25)EZ	12.2(25)SEC	12.2(25)EZ	12.2(25)EZ	12.2(25)EZ

\* When installed in Cisco 3700 Series routers, the modules can only provide Cisco's pre-standard PoE. The Cisco EtherSwitch service modules do not support any PoE when installed in Cisco 2691 router.

Platform Support

IOS Support	2691	2800 series	3700 series	3800 series
NME-16ES-1G	12.4(3), 12.4(4)T	2811, 2821, and 2851 Only	12.4(3), 12.4(4)T	12.4(3), 12.4(4)T
NME-16ES-1G-P	12.3(14)T, 12.4(1)	2811, 2821, and 2851 Only 12.3(14)T, 12.4(1)	12.3(14)T, 12.4(1)	12.3(11)T12.3(14)T, 12.4(1)
NME-X-23ES-1G	Not supported		Not supported	12.4(3), 12.4(4)T

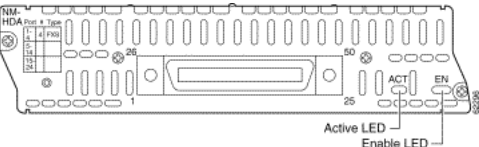
		2821 and 2851 Only		
		12.4(3), 12.4(4)T		
NME-X-23ES-1G-P	Not supported	2821 and 2851 Only 12.3(14)T, 12.4(1)	Not supported	12.3(14)T, 12.4(1)
NME-XD-24ES-1S-P	Not supported	2851 Only 12.3(14)T, 12.4(1)	Not supported	12.3(14)T, 12.4(1)
NME-XD-48ES-2S-P	Not supported	2851 Only 12.3(14)T, 12.4(1)	Not supported	12.3(14)T, 12.4(1)

Requires an IOS Base and above

[Return to Top](#)

High Density Analog Voice Network Module

NM-HDA-4FXS



High Density Analog Voice Network Module

Product	Description	Features
NM-HDA-4FXS	High density analog voice/fax network module with 4 FXS. Base Module.	<ul style="list-style-type: none"> <li>DSPs are on the base board and the DSP expansion module               <ul style="list-style-type: none"> <li>NM-HDA-FXS supports 8 high-complexity or 16 medium-complexity channels</li> <li>DSP-HDA-16 supports an additional 8 high-complexity or 16 medium-complexity channels</li> </ul> </li> <li>You cannot use 2 EM-HDA-8FXS modules on the one card. All other combinations are supported.</li> <li>See Config Guide for details of codecs, signalling protocols, configuration and operation.</li> <li>Requires an IOS Plus Feature set.</li> </ul>
EM-HDA-8FXS	8-port voice/fax expansion module - FXS. Expansion module	
EM-HDA-4FXO	4-port voice/fax expansion module - FXO. Expansion module	
DSP-HDA-16	16-channel DSP module for NM-HDA	

Platform Support

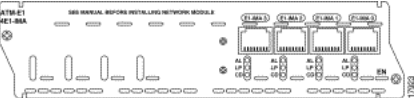
IOS Support	2600	2600XM	2801	2811,2821,2851	3620	3640, 3660	3631	2691, 3725, 3745	3800
NM-HDA	12.2(2)XT, 12.2(8)T	12.2(8)T1	Not Supported	12.3(8)T	Not supported	12.2(2)XT, 12.2(8)T	Not supported	All IOS versions	12.3(11)T

Requires an IOS "Plus" Feature set.

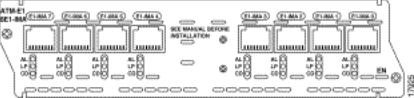
[Return to Top](#)

ATM E1 IMA Network Modules

NM-4E1-IMA **End of Sale**



NM-8E1-IMA **End of Sale**



ATM E1 IMA Network Modules

Product	Description	Features
NM-4E1-IMA	4-port E1 ATM network module with Inverse Multiplexing over ATM	<ul style="list-style-type: none"><li>E1 interface is software configurable for 75 and 120 ohm support (default 120 ohm)</li><li>Requires an IOS "Plus" or Service Provider ("-p") feature set.</li></ul>
NM-8E1-IMA	8-port E1 ATM network module with Inverse Multiplexing over ATM	

Platform Support

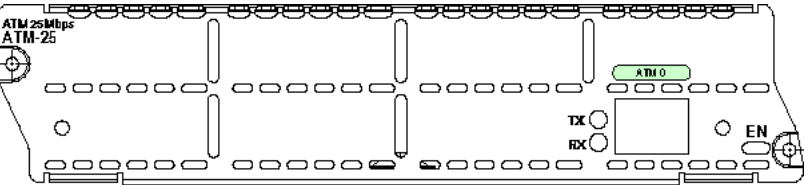
IOS Support	2600	2600XM	2800	3620, 3640	3631	3660	2691, 3745
NM-4E1-IMA / NM-8E1-IMA	12.0(5)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	All IOS versions	Not Supported	12.0(5)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	All IOS versions	12.0(5)XK, 12.1, 12.1T, 12.2, 12.2T	12.2

Requires an IOS "Plus" or Service Provider ("-p") feature set.

[Return to Top](#)

ATM/25 Mbps Network Module

NM-1ATM-25



ATM/25 Mbps Network Module

Product	Description	Features
NM-1ATM-25	1 ATM/25 Network Module	<ul style="list-style-type: none"><li>ATM/25 RJ-45 interface</li><li>Requires an IOS "Plus" feature set</li></ul>
NM-8E1-IMA	8-port E1 ATM network module with Inverse Multiplexing over ATM	

Platform Support

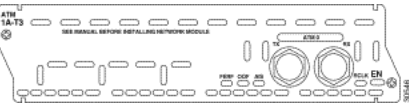
IOS Support	2600, 2600XM	3620, 3640	3631	3660	2691, 3725, 3745
NM-4E1-IMA / NM-8E1-IMA	11.3(4)T, all 12.x	11.3(3a)T, all 12.x	Not supported	12.0(7)XK, 12.1T, 12.2, 12.2T	Not supported

Requires an IOS "Plus" feature set.

[Return to Top](#)

ATM E3 Network Modules

NM-1A-E3/NM-1A-T3



Both versions provide a single ATM connection of either 44 Mbps for DS3, or 34 Mbps for E3 using 75-ohm BNC connectors. Both the DS3 and E3 ATM network modules are Forum compliant framing standard AAL5. ATM Traffic Management support includes UBR, UBR+, VBR-rt, VBR-nrt, CBR, and ABR classes of traffic

ATM E3 Network Modules

Product	Description	Features
NM-1A-T3	Single port ATM E3 75 ohm unbalanced	<ul style="list-style-type: none"><li>Requires an IOS "Plus" or Service Provider ("-p") feature set.</li></ul>
NM-1A-E3	Single port ATM E3 75 ohm unbalanced	

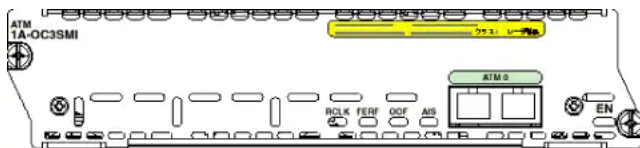
Platform Support

**IOS Support 2600 Series 2691 2811,2821,2851 3620, 3640,3660 3725, 3745 3800**  
NM-1A-X3 12.1(2)T 12.2(8)T 12.3(8)T 12.1(2)T 12.2(8)T 12.3(11)T

Requires an IOS "Plus" or Service Provider ("-p-") feature set

[Return to Top](#)

#### ATM OC-3 Network Modules



#### ATM E3 Network Modules

Product	Description	Features
NM-1A-OC3MM	Single port ATM OC-3 Multimode network module (up to 2 km)	<ul style="list-style-type: none"><li>The -EP and non-EP models share the same fit platform support.</li><li>Requires an IOS "Plus" or Service Provider ("</li></ul>
NM-1A-OC3SMI	Single port ATM E3 75 ohm unbalanced	
NM-1A-OC3SML	Single port ATM OC-3 Single mode long reach network module (up to 45 km)	
NM-1A-OC3MM-EP	Single port ATM OC-3 Multimode network module (up to 2 km), Extended Performance for 3745	
NM-1A-OC3SMI-EP	Single port ATM OC-3 Single mode intermediate reach network module (up to 15 km), Extended Performance for 3745	
NM-1A-OC3SML-EP	Single port ATM OC-3 Single mode long reach network module (up to 45 km), Extended Performance for 3745	

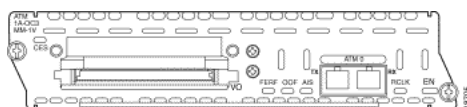
#### Platform Support

IOS Support	2600, 2600XM	3620	3640	3631	3660	2691, 3725, 3745
NM-1A-OC3MM / NM-1A-OC3SMI / NM-1A-OC3SML	Not supported	12.0(3)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1)	12.0(3)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.3(1), 12.3(2)T	Not supported	12.0(5)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2(13)T, 12.3(1), 12.3(2)T
NM-1A-OC3MM-EP / NM-1A-OC3SMI-EP / NM-1A-OC3SML-EP	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

Requires an IOS "Plus" or Service Provider ("-p-") feature set

[Return to Top](#)

#### ATM OC-3 CES Network Modules



#### ATM E3 Network Modules

Product	Description	Features
NM-1A-OC3MM-1V	Single port ATM OC-3 Multimode network module (up to 2 km) with Voice Processing Deck	<ul style="list-style-type: none"><li>ATM OC-3 interface with Circuit Emulation Services.</li><li>VWIC slot supports one and two-port VWIC-MFT-T1 and VWIC-M1 G703) for CES traffic</li><li>Requires an IOS "Plus" or Service Provider ("-p-") feature set</li></ul>
NM-1A-OC3SMI-1V	Single port ATM E3 75 ohm unbalanced	
NM-1A-OC3SML-1V	Single port ATM OC-3 Single mode long reach network module (up to 45 km)	

#### Platform Support

IOS Support	2600, 2600XM	3620, 3640	3631	3660	2691, 3725, 3745
NM-1A-OC3MM-1V / NM-1A-OC3SMI-1V / NM-1A-OC3SML-1V	Not supported	12.1(2)T, 12.2, 12.2T	Not supported	12.1(2)T, 12.2, 12.2T	Not supported

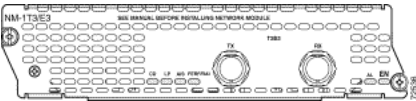
Requires an IOS "Plus" or Service Provider ("-p-") feature set

[Return to Top](#)

#### 1 T3/E3 Network Module



NM-1T3/E3



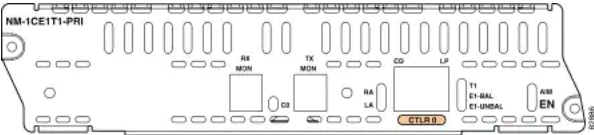
1 T3/E3 Network Module

Product	Description	Features									
NM-1T3/E3	Single port T3/E3 Network Module	<ul style="list-style-type: none"><li>Supports clear and sub-rate T3/E3. No channelized T3/E3</li><li>Supports up to 1 port of T3 or E3 rates.</li><li>Universal T3/E3 card. Software configures the “card type” to T3 or E3. Card type can be changed later.</li></ul>									
<b>Platform Support</b>											
<b>IOS Support</b>	<b>2600</b>	<b>2650XM, 2651XM</b>		<b>2801</b>	<b>2811,2821,2851</b>		<b>3631, 3620, 3640</b>		<b>2691, 3660, 3725, 3745</b>		<b>3800</b>
NM-1T3/E3	Not supported	12.2(15)T, 12.2(11)YT, 12.3(1), 12.3(2)T		Not supported	12.3(8)T		Not supported		12.2(15)T, 12.2(11)YT, 12.3(1), 12.3(2)T		12.3(11)

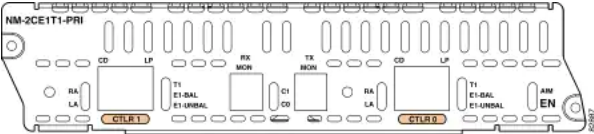
[Return to Top](#)

1CE1T1-PRI & 2CE1T1-PRI Network Modules

NM-1CE1T1-PRI



NM-2CE1T1-PRI



1CE1T1-PRI & 2CE1T1-PRI Network Modules

Product	Description	Features							
NM-1CE1T1-PRI	1-Port Channelized E1/T1/ISDN-PRI Network Module	<ul style="list-style-type: none"><li>Balanced or unbalanced E1 termination module.</li><li>Supports PRI for data, T1-CAS, and E signaling.</li><li>E1 unframed and framed modes (G.70</li><li>Cisco IOS® Software configurable for operation.</li></ul>							
NM-2CE1T1-PRI	2-Port Channelized E1/T1/ISDN-PRI Network Module								

Platform Support

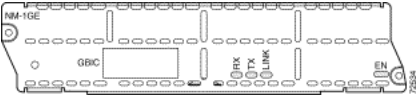
<b>IOS Support</b>	<b>2600</b>	<b>2600XMs</b>	<b>2801</b>	<b>2811,2821,2851</b>	<b>3620, 3640, 3640A</b>	<b>3631</b>	<b>3660</b>	<b>2691, 3745</b>
NM-1CE1T1-PRI	Not supported	12.2(15)T, 12.2(11)YT, 12.3(1), 12.3(2)T	Not supported	12.3(8)T	Not supported	12.2(15)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.3(11)T	12.3(11)T
NM-2CE1T1-PRI	Not supported	12.3(1), 12.3(2)T	Not supported	12.3(8)T	Not supported	12.3(1), 12.3(2)T	12.3(1), 12.3(2)T	12.3(1), 12.3(2)T

Functionality for the NM-1CE1T1-PRI and NM-2CE1T1-PRI modules are supported in all feature sets beginning in Cisco IOS 12.3(1) mainline and 12.3(1)T.

[Return to Top](#)

Gigabit Ethernet Network Module

NM-1GE



Gigabit Ethernet Network Module

Product	Description	Features
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NM-1T3/E3	Single port T3/E3 Network Module	• Supports clear and sub-rate T3/E3. No channelized T3/E3
		• Supports up to 1 port of T3 or E3 rates.
		• Universal T3/E3 card. Software configures the “card type” to T3 or E3. Card type can be changed later.

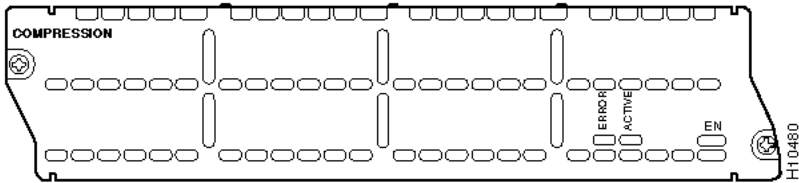
Platform Support

IOS Support	2600	2650XM, 2651XM	2801	2811,2821,2851	3631, 3620, 3640	2691, 3660, 3725, 3745	3800
NM-1T3/E3	Not supported	12.2(15)T, 12.2(11)YT, 12.3(1), 12.3(2)T	Not supported	12.3(8)T	Not supported	12.2(15)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.3(11)

[Return to Top](#)

Compression Network Module - [End Of Sale / End Of Life](#)

NM-COMPR



Compression Network Module

Product	Description	Features
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NM-COMPR	Compression Network Module	• Compresses up to 8 MBPS aggregate (2 E1, full duplex).
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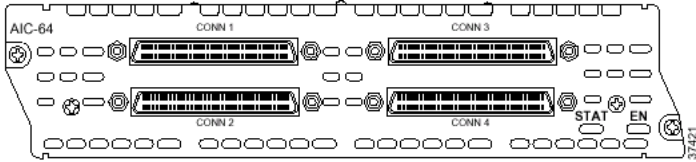
Platform Support

IOS Support	2600, 2600XM	3620, 3640	3631	3660	2691, 3725, 3745
NM-COMPR	Not supported	11.2(7a)P, 11.3, 11.3T, all 12.x	Not supported	Not supported	Not supported

[Return to Top](#)

Alarm Interface Controller Network Module [End Of Sale](#)

NM-AIC-64



Compression Network Module

Product	Description	Features
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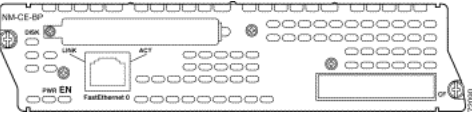
NM-AIC-64	Cisco Alarm Interface Controller	• Each Network Module can remotely monitor up to 64 network elements, and remotely control up to 16 network devices.
		• Ability to monitor powerplants for voltage fluctuations/thresholds.
		• Environmental condition monitoring for things such as, temperature and humidity.
		• Enhanced premise security monitoring, autonomous control of security camera's triggered by door/window alarm.
		• Software selectable TL1 or SNMP notification with multiple sessions.
		• More than one AIC can be installed per router for example a Cisco 366x can accommodate up to six AICs and can monitor up to 64 elements, and remotely control up to 96 network devices.
		• Use the AIC Patch Panel to inject current into loops, and to break out the signals to RJ-21 telco connectors.

<b>Platform Support</b>									
<b>IOS Support 2600</b>									
		<b>2600XM 2801</b>		<b>2811,2821,2851</b>	<b>3620, 3640</b>	<b>3631</b>	<b>3660</b>	<b>2691, 3725, 3745 3800</b>	
NM-AIC-64	12.2(2)XG, 12.2(8)T	12.2(8)T1	Not supported	12.3(8)T	12.2(2)XG, 12.2(8)T	All IOS versions	12.2(2)XG, 12.2(8)T	Not supported	12.3(11)T

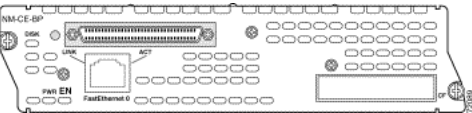
[Return to Top](#)

**Content Engine Network Modules**

**NM-CE-BP-20G-K9 / NM-CE-BP-40G-K9 / NM-CE-BP-80G-K9**



**NM-CE-BP-SCSI-K9**



**Content Engine Network Module**

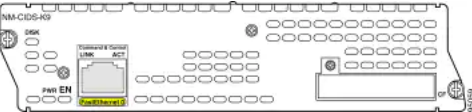
Product	Description	Features							
NM-CE-BP-20G-K9	Content Engine Network Module - Basic Perf - 20GB								
NM-CE-BP-40G-K9	Content Engine Network Module - Basic Perf - 40GB								
NM-CE-BP-80G-K9	Content Engine Network Module - Basic Perf - 80GB								
NM-CE-BP-SCSI-K9	Content Engine Network Module - Basic Perf - SCSI Adapter	<ul style="list-style-type: none"> <li>CE507 in a network module form factor.</li> <li>Options: 20 GB disk, 40 GB disk, 80 GB disk, or SCSI controller (no</li> </ul>							
SF-NM-ACNS4.2-K9	Enterprise Caching and ECDN SW v4.2 for NM-CE-BP, 3DES								
SF-NM-RCPS-8.0	Combined Real System V8 Proxy and Subscriber for Cisco NM-CE-BP								
SF-NM-WMS-1.1	Microsoft Windows Media Server V4 for Cisco NM-CE-BP								

<b>Platform Support</b>									
<b>IOS Support 2600</b>									
		<b>2600XM</b>		<b>2801</b>	<b>2811,2821,2851</b>	<b>3620</b>	<b>3631</b>	<b>3640, 3640A, 3660</b>	<b>2691, 3725, 3745</b>
NM-CE-BP-20G-K9									
NM-CE-BP-40G-K9	12.2(2)XG,	12.2(13)T, 12.2(11)YT, 12.3(1),	Not supported	12.3(8)T4	Not supported	Not supported	12.2(13)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2(13)T, 12.2(11)YT, 12.3(1), 12.3(2)T	
NM-CE-BP-80G-K9	12.2(8)T	12.3(2)T							
NM-CE-BP-SCSI-K9									

[Return to Top](#)

**NM-CIDS-K9 Network Module**

**NM-CIDS-K9**



**NM-CIDS-K9 Network Module**

Product	Description	Features							
NM-CIDS-K9	Cisco IDS Network Module, 20-GB IDE hard disk	<ul style="list-style-type: none"> <li>The available configuration is a 20-gigabyte hard disk for logging and storage of events.</li> <li>The external Ethernet port is used for command and control to enable a secure outbound port for management. This setup al security operations and network operations to have their own command and control interfaces.</li> </ul>							

<b>Platform Support</b>									
<b>IOS Support 2600</b>									
		<b>2600XM</b>	<b>2801</b>	<b>2811,2821,2851</b>	<b>3620</b>	<b>3631</b>	<b>3640, 3640A</b>	<b>3660, 2691, 3725, 3745</b>	<b>3800</b>

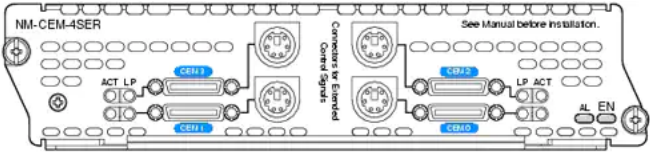
IOS Support	12.2(15)ZJ or later	12.2(15)ZJ or later	Not Supported	12.3(8)T	Not Supported	Not Supported	Not Supported	12.2(15)ZJ or later	12.3(11)T
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**Note:** Requires IDS feature.

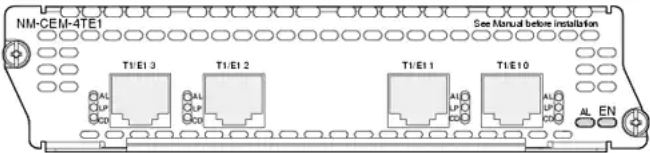
[Return to Top](#)

Circuit Emulation Modules

NM-CEM-4SER



NM-CEM-4TE1



NM-CIDS-K9 Network Module

Product	Description	Features
NM-CEM-4SER	4 Port Serial Circuit Emulation over IP Network Module	
NM-CEM-4TE1	4 Port T1/E1 Circuit Emulation over IP Network Module	

Platform Support

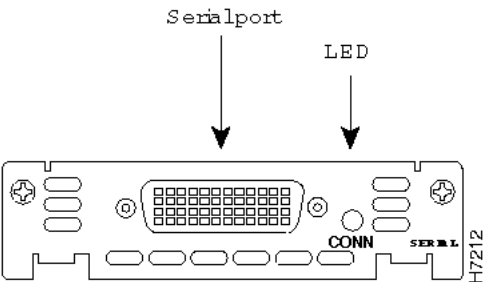
IOS Support	2600	2600XM	2801	2811,2821,2851	3620, 3640, 3631	3660	2691, 3725, 3745	3800
NM-CEM-4SER	12.2(15)ZJ or later	12.3(7)T and later	Not Supported	12.3(8)T	Not Supported	12.3(7)T and later	12.3(7)T and later	12.3(11)T
NM-CEM-4TE1								

Note: Emulation network modules require one of the following feature sets:

- SP Services and above (Cisco 2600XM Series, and Cisco 2691, 3725, and 3745)
  - SP Services
  - Advanced IP Services
  - Enterprise Services
  - Advanced and Enterprise Services
- IP Plus and above (Cisco 3660 only)

[Return to Top](#)

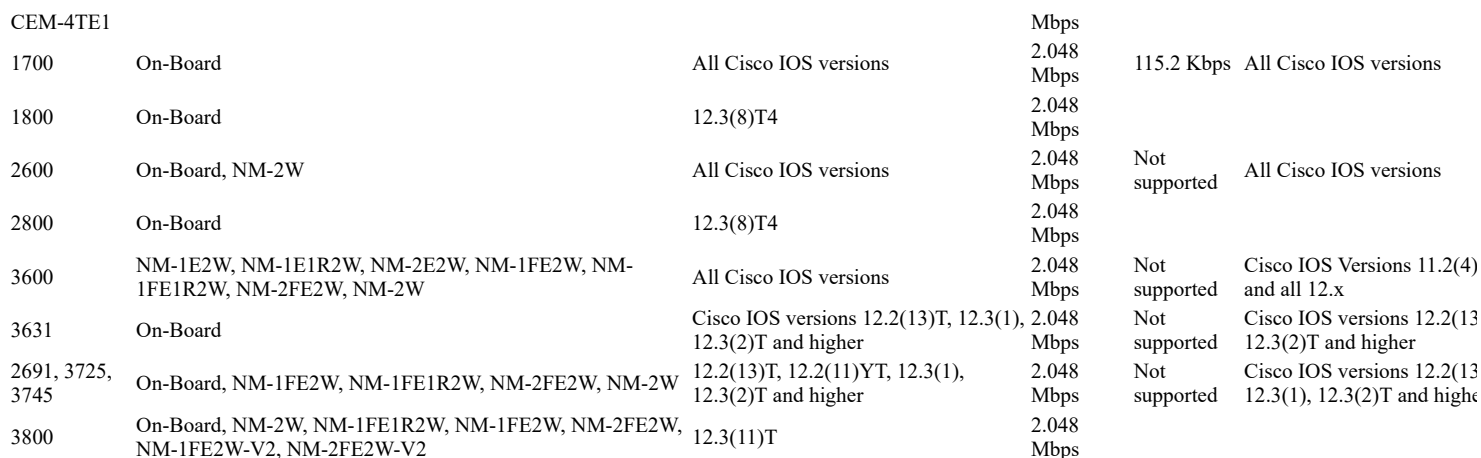
WIC-1T



One port serial (DB60, Cisco 60-pin "5-in-1" connector ). Supports Max sync speed 2 Mbps. Does not support hot swap.

Platform Support

Feature	Carrier Module	Cisco IOS software support	Sync Max Speed	Async Max Speed	Bisync & Half Duplex
1600NM-	On-Board	All Cisco IOS versions	2.048	115.2 Kbps	Cisco IOS Versions 11.2(8)



The WIC-2A/S provides two serial ports using the Smart Serial connector. The only difference between the WIC-2A/S and the WIC-2T is the maximum supported sync spe

- Asynchronous support with a maximum speed of 115.2 Kbps, and a minimum of 600 bps. If you need to run at speeds lower than 600 bps, use the AUX port instead.
- Synchronous support with a maximum speed of 128 Kbps.

Platform Support													
Feature	1600	1700	1800	2600		2600XM	2800	3620, 3640, 3660	3631		2691, 3725, 3745	38	
Carrier Module	Not Required	On-Board	On-Board	On-Board	NM-2W	On-Board	NM-2W	On-Board NM-2W	NM-1E2W, NM-1E1R2W, and NM-2E2W	On-Board	On-Board, NM-1FE2W, NM-1FE1R2W, NM-2FE2W, NM-2W	Optional	
Cisco IOS software support	Not supported	All Cisco IOS versions	12.3(8)T4	All Cisco IOS versions	Cisco IOS versions 12.0(7)XK, 12.1(1)T, 12.2, 12.2T	All Cisco IOS versions	Cisco IOS versions 12.2(8)T1	12.3(8)T4	Cisco IOS versions 12.2(8)T1	Not supported	Cisco IOS versions 12.0(7)XK, 12.1(1)T, 12.2, 12.2T	All Cisco IOS versions	12

The Cisco 1600 series is not capable of supporting the WIC-2A/S due to the lack of Serial Communications Controllers.

The NM-1E2W, NM-1E1R2W, and NM-2E2W Network Modules do not have enough performance power to support the WIC-2A/S due to hardware limitations.

[Return to Top](#)

#### WIC-1ADSL



One RJ-11 ADSL interface. Supports ADSL over POTS with Annex A ITU 992.1 (G.dmt). Supports up to 23 virtual circuits per WIC. Dying gasp is not supported on WIC. gasp support please refer to WIC-1ADSL-DG.

Platform Support													
Feature	Cisco 1600	Cisco 1700		Cisco 1800	Cisco 2600	Cisco 2600XM	Cisco 2800	Cisco 3600		Cisco 3631	Cisco 2691, 3725, and 3745	3	
Carrier Module	On-Board	On-Board		On-Board	On-Board, NM-2W	On-Board, NM-2W	On-Board	NM-1E1R2W, NM-1E2W, NM-2E2W	NM-1FE1R2W, NM-1FE2W, NM-2FE2W, NM-2W	On-Board	On-Board	NM-1FE1R2W, NM-1FE2W, NM-2FE2W, NM-2W	C
Cisco IOS software support	Not supported	12.1(3)XJ, 12.1(3)XP, 12.1(3)XT1, 12.1(5)YB, 12.2(2)T		12.3(8)T4	12.1(5)YB, 12.2(4)T	12.2(8)T1	12.3(8)T4	Not Supported	12.1(5)YB, 12.2(4)T	Not Supported	All Cisco IOS versions	All Cisco IOS versions	1

Requires an "ADSL" feature set for CISCO 1700 series. Requires a "Plus" feature set for CISCO 2600 / 2600XM / 3600 / 3700 series.

[Return to Top](#)

#### WIC-1SHDSL - [End of sale](#)



One RJ-11 G.SHDSL interface. Symmetrical WAN speeds (up to 2.3 Mbps) over a single copper pair. Supports up to 23 virtual circuits per WIC.

**Platform Support**

Feature	Cisco 1600	Cisco 1700	Cisco 1800	Cisco 2600	Cisco 2600XM	Cisco 2800	Cisco 3600	Cisco 3631	Cisco 2691, 3725, and 3745
WIC-1SHDSL	Not Supported	12.2(13)T	12.3(8)T4	12.2(4)XL, 12.3(1)	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	12.3(8)T4	12.2(8)T	12.3(2)T	12.2(13)T, 12.2(11)YT, 12.3(1), 12.3(2)T

Requires 1700, 1800, 2600, 2800, 3700, 3800 Chassis WIC Slot, or NM-1FE1R2W, NM-1FE2W, NM-2FE2W, NM-2W WIC slots. Not supported in NM-1E1R2W, NM-1E

Requires an "ADSL" feature set for CISCO 1700 series. Requires a "Plus" feature set for CISCO 2600 / 2600XM / 3600 / 3700 series.

[Return to Top](#)

**WIC-1SHDSL-V2 - End Of Sale**



One RJ-11 G.SHDSL interface. Symmetrical WAN speeds up to 2.3Mbps over a single copper pair and up to 4.6Mbps over two copper pairs. Supports up to 23 virtual circuits

**Platform Support**

Feature	Cisco 1600	Cisco 1700	Cisco 1800	Cisco 2691	2610-2651XM	2800	3725, 3745	3800
WIC-1SHDSL-V2	Not Supported	12.3(8)T	12.3(8)T4	12.3(4)XD	12.3(4)XD	12.3(8)T4	12.3(4)XD	12.3(11)T

Requires 1700, 1800,2600, 2800, 3800 Chassis WIC Slot, or NM-1FE2W-V2, NM-2FE2W-V2, and NM-FE1R2W-V2.

[Return to Top](#)

**WIC-1SHDSL-V3**



One RJ-11 G.SHDSL interface. Symmetrical WAN speeds up to 2.3Mbps over a single copper pair and up to 4.6Mbps over two copper pairs. Supports up to 23 virtual circuits

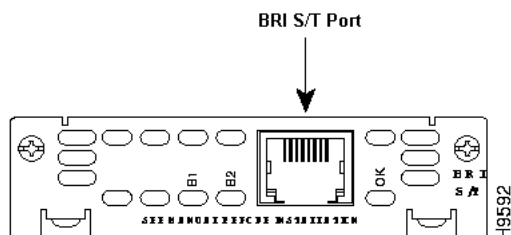
**Platform Support**

Feature	Cisco 1600	1721,1751,1760	1841	Cisco 2691	2610-2651XM	2811-2851	3725, 3745	2825,3845
WIC-1SHDSL-V3	Not Supported	IP/ADSL IP Base and up	IP Base and up	IP Base and up	IP Base and up	IP Base and up	IP Base and up	IP Base and up

- \* Minimum IOS release 12.4(2)XA and Mimimum IOS T train support 12.4(3rd)T or 12.4(6)T
- \*\*Difference between V2 and V3 - Conexant Firmware Version as of 8/20/2005, A29733 (based on 2.3.1)for V2, 3.0.1 for V3
- \*\*\*Requires 1700, 1800,2600, 2800, 3800 Chassis WIC Slot, or NM-1FE2W-V2, NM-2FE2W-V2, and NM-1FE1R2W-V2.

[Return to Top](#)

**WIC-1B-S/T - [End of sale](#), WIC-1B-S/T-V2, WIC-1B-S/T-V3**



One ISDN BRI port (S/T interface, requires external NT-1, RJ-45 connector). Does not support hot swap.

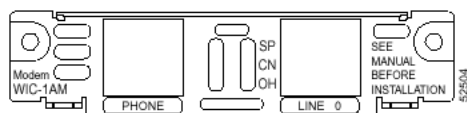
## Platform Support

Platform	Cisco 1601(R), 1602 (R), and 1605-R	Cisco 1603, 1603-R, 1604, and 1604-R	Cisco 1720, 1721, 1751, 1760	Cisco 1750	Cisco 1800	Cisco 2600 and 2600XM	Cisco 2800	Cisco 3620 and 3640, 3640A	Cisco 3631	Cisco 3660	Cisco 2691 and 3745		
Carrier Module	On-Board	On-Board	On-Board	On-Board	On-Board	On-Board	NM-2W	On-Board	On-Board	NM-2W	NM-1E2W, NM-1E1R2W, and NM-2E2W	NM-1FE2W, NM-1FE1R2W, and NM-2FE2W, NM-2W	On-Board NM-1FE2W, NM-1FE1R2W, and NM-2FE2W, NM-2W
WIC-1B-S/T	All Cisco IOS versions	Not supported	All Cisco IOS versions	All Cisco IOS versions	Not supported	All Cisco IOS versions	Not supported	Cisco IOS versions 11.2(4)XA, 11.2(5)P, 11.3, 11.3T, all 12.x	All Cisco IOS versions	All Cisco IOS versions	All Cisco IOS versions		
WIC-1B-S/T-V2	Not supported	Not supported	First supported in 12.0(25), 12.1(19), 12.2(16), and 12.3(1)	Not supported	-	First supported in 12.0(25), 12.1(19), 12.2(16), and 12.3(1)	First supported in 12.0(25), 12.1(19), 12.2(16), and 12.3(1)	First supported in 12.0(25), 12.1(19), 12.2(16), and 12.3(1)	First supported 12.3(1)	First supported in 12.0(25), 12.1(19), 12.2(16), and 12.3(1)	First supported 12.3(1)		
WIC-1B-S/T-V3	Not Supported	Not Supported	12.3(10)	Not Supported	12.3(8)T4	12.3(10)	12.3(8)T	Not Supported	Not Supported	12.3(10)	12.3(10)		

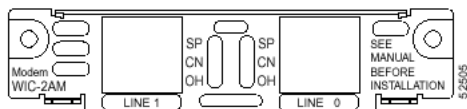
[Return to Top](#)

## Analogue Modem WICs

### WIC-1AM



### WIC-2AM



WIC-1AM and WIC-2AM provide V.90 analog modem interfaces for low density applications (router management, dial backup and access). WIC-1AM includes jack for hook to PSTN line.

## Platform Support

Platform	Cisco 1600	Cisco 1700	Cisco 1800	Cisco 2600	Cisco 2600XM	Cisco 2800	Cisco 3600	Cisco 3631	Cisco 2691, 3725, and 3745
WIC-1AM	Not Supported	12.2(4)YB	12.3(8)T4	12.2(2)XB, 12.2(8)T	12.2(8)T1	12.3(8)T4	12.2(2)XB, 12.2(8)T	All Cisco IOS versions	All Cisco IOS versions



WIC-2AM Not Supported 12.2(4)YB 12.3(8)T4 12.2(2)XB, 12.2(8)T 12.2(8)T1 12.3(8)T4 12.2(2)XB, 12.2(8)T All Cisco IOS versions All Cisco IOS versions

V.92 is not currently supported.

[Return to Top](#)

WIC-1DSU-T1-V2



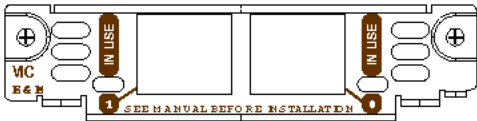
Cisco® T1 data service unit/channel service unit (DSU/CSU) WAN Interface Card (WIC) is an integrated, fully managed DSU/CSU for T1 or fractional T1 service and is W

Platform Support

Platform	Cisco 1720,1721,1751,1760	Cisco 2600XM and 2691	Cisco 3631	Cisco 3725, 3745
WIC-1DSU-T1-V2	12.2(15)ZL PCBU special 12.3(1st)T, 12.2(17)Mainline, 12.3(1)Mainline	12.3(1st)T, 12.2(17)Mainline, 12.3(1)Mainline	12.3(1st)T, 12.2(17)Mainline, 12.3(1)Mainline	12.3(1st)T, 12.2(17)Mainline, 12.3(1)Mainline

[Return to Top](#)

VIC-2E/M



2-Port E&M voice/fax interface card. Used to connect to PBX or key system as tie lines. Supports 2 and 4 wire, E&M signaling types I, II, III, V via RJ-45 connectors. Both same signaling type.

Platform Support

IOS Support	1750, 1751, 1760	2600, 2600XM	3620, 3640	3631	3660	2691, 3725, 3745
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VIC-2E/M All Cisco IOS versions All Cisco IOS versions 11.3(1)T, all 12.x Not Supported. Voice is not supported on 3631. All Cisco IOS versions All Cisco IOS versi

Voice requires an IOS "Plus" feature set.

[Return to Top](#)

VIC2-2E/M



2-port E&M voice/fax interface card. Used to connect to PBX or key system as tie lines.

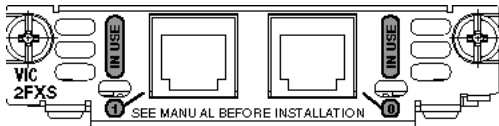
Platform Support

IOS Support	1751, 1760	1800	2691	2600XM	2800	3620, 3640	3631	3640, 3660	372
VIC-2E/M	12.2(15)ZL, 12.3(2)XA, 12.3(2)XC, 12.3(2)XE, 12.3(4)T, 12.3(5)	Not Supported.	12.2(15)ZJ, 12.3(4)T, 12.3(4)XD	12.2(15)ZJ, 12.3(4)T	12.3(8)T4	11.3(1)T, all 12.x	Not Supported. Voice is not supported on 3631.	12.2(15)ZJ, 12.3(4)T	12.3

Voice requires an IOS "Plus" feature set. 12.3 Mainline and forward supported in "IP Voice" feature set.

[Return to Top](#)

VIC-2FXS



2-port FXS(Foreign Exchange Station) voice / fax interface card. Connects to a telephone or fax, or to a PBX or key set that emulates a telephone. Uses RJ-11 connectors.

Platform Support

IOS Support	1750, 1751, 1760	2600, 2600XM	3620, 3640	3631	3660	2691, 3725, 3745
-------------	------------------	--------------	------------	------	------	------------------

VIC-2FXS All Cisco IOS versions All Cisco IOS versions 11.3(1)T, all 12.x Not Supported. Voice is not supported on 3631. All Cisco IOS versions All Cisco IOS versi

Voice requires a "Voice" feature set on 1700 Series, "Plus" feature set on 2600/3600.

[Return to Top](#)

VIC2-2FXS



2-port FXS voice/fax interface card. FXS port is used to connect directly to phones, fax machines, and key systems. Generates battery polarity reversal and caller ID.

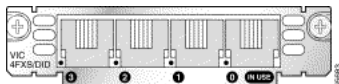
Platform Support

IOS Support	1751, 1760	2600XM	2691	2801	2811,2821,2851	3631	3640, 3660	372
VIC2-2FXS	12.2(15)ZL, 12.3(2)XA, 12.3(2)XC, 12.3(2)XE, 12.3(4)T, 12.3(5)	12.2(15)ZJ, 12.3(4)T	12.2(15)ZJ, 12.3(4)T, 12.3(4)XD	12.3(8)T4	12.3(8)T4	Not Supported. Voice is not supported on 3631.	12.2(15)ZJ, 12.3(4)T	12.3

- Note:
1. When used in a Cisco 2600, 3600, or 3700 Series Router, requires a voice / fax network module: NM-1V or NM-2V.
  2. Prior to Cisco IOS 12.3 Mainline, requires a Cisco IOS "Plus" feature set. 12.3 Mainline and forward supported in "IP Voice" feature set.

[Return to Top](#)

VIC-4FXS/DID



4-port FXS voice/fax interface card. FXS port is used to connect directly to phones, fax machines, and key systems. Generates battery polarity reversal and caller ID.

**Platform Support**

**IOS Support**    1751        1760        2600XM 2691        2801, 2811,2821,2851 3640,3660 3700        3800

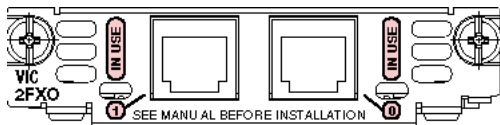
VIC-4FXS/DID 12.3(4)T 12.3(4)T 12.3(4)T 12.3(4)T 12.3(8)T4                    12.3(4)T    12.3(4)T 12.3(11)T

Notes:

- 1. When used in a Cisco 2600, 3600, or 3700 Series Router, requires a voice/fax network module: NM-1V or NM-2V
- 2. Prior to Cisco IOS 12.3 Mainline, requires a Cisco IOS "Plus" features set. 12.3 Mainline and forward supported in "IP Voice" feature set.

[Return to Top](#)

**VIC-2FXO**



2-port FXO voice/fax interface card, Australia uses VIC-2FXO-M3. Connects to a telco line, or to a PBX or key set that emulates a telco line. Uses RJ-11 connectors.

**Platform Support**

**IOS Support**    1750, 1751    1760                    2600                    2600XM    3620, 3640                    3631                    3660

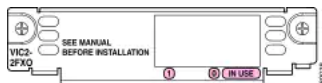
VIC-2FXO    All Cisco IOS versions    All Cisco IOS versions    All Cisco IOS versions                    All Cisco IOS versions    11.3(1)T, all 12.x                    Not Supported. Voice is not supported on 3631.                    All Cisco versions

VIC-2FXO-M3    12.1(5)T , 12.2, 12.2T    All Cisco IOS versions    11.3(6)T, 12.0(2), 12.0(2)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T    All Cisco IOS versions    11.3(6)T, 12.0(2), 12.0(2)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T    Not Supported. Voice is not supported on 3631.                    All Cisco versions

Voice requires a "Voice" feature set on 1700 Series, "Plus" feature set on 2600/3600.

[Return to Top](#)

**VIC2-2FXO**



2-port FXO voice/fax interface card [universal card for all countries]. Also supports analog Centralized Automated Message Accounting (CAMA) on any port. FXO port is PBX or key system, or to provide off-premises connections to PSTN or PTT. Supports battery reversal detection and caller ID. These Cisco VICs can be software configured for different countries. Also used to connect to analog CAMA trunk to provide dedicated E-911 service (North America only)

**Platform Support**

**IOS Support**    1750, 1751, and 1760                    2691                    2600XM    2801    2811,2821,2851 3631    3640, 3660    3745,

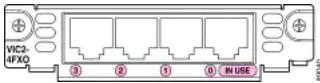
VIC2-2FXO    12.2(15)ZL, 12.3(2)XA, 12.3(2)XC, 12.3(2)XE, 12.3(4)T, 12.3(5)    12.2(15)ZJ, 12.3(4)T, 12.3(4)XD    12.2(15)ZJ, 12.3(4)T    12.3(8)T4 12.3(8)T4    Not Supported.    12.2(15)ZJ, 12.3(4)T    12.2(15)ZJ, 12.3(4)T

Notes:

- 1. When used in a Cisco 2600, 3600, or 3700 Series Router, requires a voice / fax network module: NM-1V or NM-2V.
- 2. Prior to Cisco IOS 12.3 Mainline, requires a Cisco IOS "Plus" feature set. 12.3 Mainline and forward supported in "IP Voice" feature set.

[Return to Top](#)

**VIC2-4FXO**



4-port FXO voice/fax interface card [universal card for all countries]. Also supports analog CAMA on any port. FXO port is used to connect to PBX or key system, or to provide connections to PSTN or PTT. Supports battery reversal detection and caller ID. These Cisco VICs can be software configured to work in all countries. Also used to connect trunk to provide dedicated E-911 service (North America only)

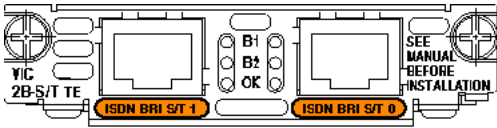
**Platform Support**

IOS Support	1750, 1751, and 1760	2691	2600XM	3640	3620, 3631	3660	3725, 3745
VIC-2-4FXO	12.2(15)ZL, 12.3(2)XA, 12.3(2)XC, 12.3(2)XE, 12.3(4)T, 12.3(5)	12.2(15)ZJ, 12.3(4)T, 12.3(4)XD	12.2(15)ZJ, 12.3(4)T	12.2(15)ZJ, 12.3(4)T	Not Supported.	12.2(15)ZJ, 12.3(4)T	12.2(15)ZJ, 12.3(4)T

- Notes:
1. In the Cisco 1751 router, a maximum of one VIC2-4FXO card can be supported.
  2. In the Cisco 1760 router, a maximum of two VIC2-4FXO cards can be supported.
  3. When used in a Cisco 2600, 3600, or 3700 Series Router, requires a voice / fax network module: NM-1V or NM-2V.
  4. Prior to Cisco IOS 12.3 Mainline, requires a Cisco IOS "Plus" feature set. 12.3 Mainline and forward supported in "IP Voice" feature set.

[Return to Top](#)

**VIC-2BRI-S/T-TE / VIC-2BRI-NT/TE**



VIC-2BRI-S/T-TE - Two port ISDN BRI Voice Interface Card, S/T interface, Terminal Equipment  
 VIC-2BRI-NT/TE - Two port ISDN BRI Voice Interface Card, S/T interface, Network Termination or Terminal Equipment

Two ISDN BRI (RJ-45), total of 4 B channels, thus 4 voice calls per VIC.

**Platform Support**

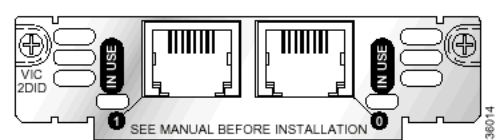
IOS Support	1750	1751	1760	2600	2600XM	3620, 3640	3631	3660
VIC-2BRI-S/T-TE	Not Supported	Not Supported	Not Supported	12.0(2)XD, 12.0(3)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	All Cisco IOS versions	12.0(2)XD, 12.0(3)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	Not Supported. Voice is not supported on 3631.	12.0(7)XK, 12.1(2)T, 12.2, 12.2T
VIC-2BRI-NT/TE	Not Supported	Not Supported	All Cisco IOS versions	12.1(3)XI, 12.1(4)T, 12.2, 12.2T	12.2(8)T1	12.1(3)XI, 12.1(4)T, 12.2, 12.2T	Not Supported. Voice is not supported on 3631.	12.1(3)XI, 12.1(4)T, 12.2, 12.2T

Voice requires a "Voice" feature set on 1700 Series, "Plus" feature set on 2600/3600. Voice is not supported on 3631.

When you use the VIC-2BRI-S/T-TE with a NM-1V, you will only be able to place 2 calls. The second BRI port will be shutdown. When you use the VIC-2BRI-S/T-TE with a NM-2V, you will be able to place 4 calls. If you have another VIC in the second slot, the second BRI port on the VIC-2BRI-S/T-TE will be shut down.

[Return to Top](#)

**VIC-2DID**



2-port DID voice/fax interface card. Used to provide off-premises DID connection from central office. Serves only incoming calls from the PSTN. Supports caller ID. Connector uses RJ-11 connectors.

**Platform Support**

IOS Support	1750, 1751 1841	2600	2600XM	2691	2801	2811,2821,2851	3620,3640,3660	3725, 3745 3800
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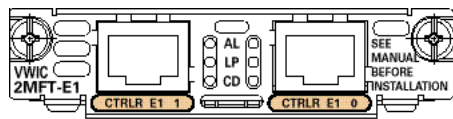
VIC-2DID 12.2(2)XJ Not Supported 12.1(5)XM1, 12.2(2)T 12.2(8)T1 12.2(8)T1 12.3(8)T4 12.3(8)T4 12.1(5)XM1 12.2(8)T 12.3(11)T

#### Notes:

1. When used in a Cisco 2600, 3600, or 3700 Series router, requires a voice / fax network module: NM-1V or NM-2V.
2. When used in a Cisco 1751 or Cisco 1760 Series Router, requires a DSP module.
3. Prior to Cisco IOS 12.3 Mainline, requires a Cisco IOS "Plus" feature set. 12.3 Mainline and forward supported in "IP Voice" feature set.

[Return to Top](#)

### 1 and 2 Port E1 Multi-Flex Trunk VWIC



#### 1 and 2 Port E1 Multi-Flex Trunk VWIC

Product	Description
VWIC-1MFT-E1	1-Port RJ-48 Multiflex Trunk - E1
VWIC-2MFT-E1	2-Port RJ-48 Multiflex Trunk - E1
VWIC-2MFT-E1-DI	2-Port RJ-48 Multiflex Trunk - E1 With Drop and Insert
VWIC-1MFT-G703	1-Port RJ-48 Multiflex Trunk - E1 for unstructured G.703
VWIC-2MFT-G703	2-Port RJ-48 Multiflex Trunk - E1 for unstructured G.703

This Multi-Flex Trunk may be used as a Voice Interface Card or as a WAN Interface Card (in a WIC slot in the 2600 or 3600). Thus it is a Voice WAN Interface Card (VWIC)

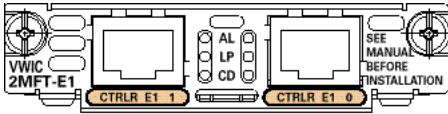
#### Platform Support

Feature	1600	1700	1800	2600	2600XM				2800	3600			3631	269	
Carrier Module	On-Board	On-Board	On-Board	On-Board	NM-2W	High Density Voice NM	On-Board	NM-2W	High Density Voice NM	On-Board	NM-1E2W, NM-1E1R2W, NM-2E2W	NM-1FE2W, NM-1FE1R2W, NM-2FE2W, NM-2W	High Density Voice NM	On-Board	On-Boa
VWIC-1MFT-E1	Not supported	12.2(4)YB, 12.2(8)YJ	12.3(8)T4	12.0(5)XK, 12.0(7)T, 12.1, 12.1T, 12.2, 12.2T	12.0(7)XK, 12.1(1)T, 12.1(2)T, 12.2, 12.2T	All Cisco IOS versions			12.2(8)T1	12.2(8)T1	12.3(8)T4	12.0(5)XK, 12.0(7)T, 12.1, 12.1T, 12.2, 12.2T	12.0(7)XK, 12.1(1)T, 12.1(2)T, 12.2, 12.2T	All Cisco IOS versions	12.2 V2.1
VWIC-2MFT-E1	Not supported	12.2(4)YB, 12.2(8)YJ	12.3(8)T4	12.0(5)XK, 12.0(7)T, 12.1, 12.1T, 12.2, 12.2T	12.0(7)XK, 12.1(1)T, 12.1(2)T, 12.2, 12.2T	All Cisco IOS versions			12.2(8)T1	12.2(8)T1	12.3(8)T4	Not supported	12.0(7)XK, 12.1(1)T, 12.1(2)T, 12.2, 12.2T	All Cisco IOS versions	12.2 V2.1
VWIC-2MFT-E1-DI	Not supported	12.2(4)YB, 12.2(8)YJ	12.3(8)T4	12.0(5)XK, 12.0(7)T, 12.1, 12.1T, 12.2, 12.2T	12.0(7)XK, 12.1(1)T, 12.1(2)T, 12.2, 12.2T	All Cisco IOS versions			12.2(8)T1	12.2(8)T1	12.3(8)T4	12.0(5)XK, 12.0(7)T, 12.1, 12.1T, 12.2, 12.2T	12.0(7)XK, 12.1(1)T, 12.1(2)T, 12.2, 12.2T	All Cisco IOS versions	12.2 V2.1
VWIC-1MFT-G703	Not supported	12.2(8)YJ	12.3(8)T4	12.1(1)T, 12.2, 12.2T	12.1(1)T, 12.1(2)T, 12.2, 12.2T	Not supported	12.2(8)T1	12.2(8)T1	Not supported	12.3(8)T4	12.1(1)T, 12.2, 12.2T	12.1(1)T, 12.1(2)T, 12.2, 12.2T	Not supported	All Cisco IOS versions	12.2 V2.1
VWIC-2MFT-G703	Not supported	12.2(8)YJ	12.3(8)T4	12.1(1)T, 12.2, 12.2T	12.1(1)T, 12.1(2)T, 12.2, 12.2T	Not supported	12.2(8)T1	12.2(8)T1	Not supported	12.3(8)T4	Not supported	12.1(1)T, 12.2, 12.2T	Not supported	All Cisco IOS versions	12.2 V2.1

For further reference please refer to [http://www.cisco.com/en/US/products/hw/routers/ps274/products\\_tech\\_note09186a00800b6e0f.shtml](http://www.cisco.com/en/US/products/hw/routers/ps274/products_tech_note09186a00800b6e0f.shtml)

[Return to Top](#)

### 2nd Generation 1 and 2 Port T1E1 Multiflex Trunk Voice WAN Interface Cards



## 2nd Generation 1 and 2 Port T1/E1 Multiflex Trunk Voice WAN Interface Cards

Product	Description
VWIC2-1MFT-T1/E1	1-Port T1/E1 Multiflex Trunk Voice/WAN Interface Card
VWIC2-2MFT-T1/E1	2-Port T1/E1 Multiflex Trunk Voice/WAN Interface Card
VWIC2-1MFT-G703	1-Port G.703 Multiflex Trunk Voice/WAN Interface Card
VWIC2-2MFT-G703	2-Port G.703 Multiflex Trunk Voice/WAN Interface Card

- \* Have an onboard slot for a Cisco MFT Dedicated Echo Cancellation (ECAN) Module (part number EC-MFT-32 or EC-MFT-64),
- \* Support both T1 and E1, providing additional flexibility in configuring the Cisco MFT VWIC2s for supporting T1, fractional T1, E1, and fractional E1 for both voice and
- \*Include the drop-and-insert multiplexing capability
- \*enable each port to be clocked from independent clock sources for data applications.

### Platform Support

Feature	1721,1751,1760	1841 (data only)	2600XM	2691	3662	3700	2800	3800
Carrier Module	On-Board	On-Board	On-Board	On-Board	NM-2W	High Density Voice	NM	On-Board NM-2W
VWIC2-XXXX	12.3(14)T	12.3(14)T	12.3(14)T	12.3(14)T	12.3(14)T	12.3(14)T	12.3(14)T	12.3(14)T

- \* Please see the following link for more info about [WIC/NM/VIC constraint](#) :
- \*\* Data applications require at a minimum the IP Base feature set license and voice applications require at a minimum the IP Voice feature set license.

[Return to Top](#)

## Multiflex trunk dedicated echo cancellation modules (EC-MFT-32, EC-MFT-64)

Cisco Multiflex Trunk Dedicated Echo Cancellation (MFT ECAN) Modules are dedicated resources for the Cisco Enhanced ITU-T G.168 ECAN feature, providing robust performance for demanding network environments. The modules are daughter cards that attach to Cisco Second-generation Multiflex Trunk Voice/WAN Interface Cards (MFT VWIC2s). The dedicated ECAN modules are available in 32- and 64-channel configurations, which match the requirements of the 1- and 2-port T1/E1 MFT VWIC2s, respectively.

### Platform Support

Platform	1721,1751 and 1760	2600XM	2691	2800	3662	3700	3800
EC-MFC-XX	12.3(14)T, 12.4(1)	12.2(13)T	12.2(13)T	12.3(14)T, 12.4(1)	12.2(13)T	12.3(14)T, 12.4(1)	12.3(14)T, 12.4(1)

- \* Dedicated Echo Cancellation module is not supported on MFT VWIC2 when MFT VWIC2 is used on the Cisco 1751 or 1760.
- \*\* It is possible to install a Cisco 32-Channel MFT Dedicated ECAN Module on a 2-port MFT VWIC2. However, not all voice channels will be able to concurrently use the feature.
- \*\*\* It is possible to install a Cisco 64-Channel MFT Dedicated ECAN Module on a 1-port MFT VWIC2. However, the extra echo cancellation channels will not be used. The MFT VWIC2 that can use the module resources are the ports directly attached to the module.

[Return to Top](#)

## AIM-COMPR2 / AIM-COMPR4



		12.2(2)T, 12.3(1)	12.2(11)YT, 12.3(1), 12.3(2)T									
AIM-VPN/EP	Not Supported	12.2(2)T, 12.3(1)	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	Not Supported	Not Supported
AIM-VPN/HP	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	12.1(3a)X11, 12.2(1), 12.2(2)T, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	Not Supported
AIM-VPN/BPII	Not Supported	12.1(3a)X11, 12.2(1), 12.2(2)T, 12.3(1)	12.2(12), 12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
AIM-VPN/EPII	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	12.2(13)T, 12.3(1), 12.3(2)T	Not Supported	Not Supported	Not Supported
AIM-VPN/HP11	Not Supported	Not Supported	Not Supported	Not Supported	12.1(3a)X11, 12.2(1), 12.2(2)T, 12.3(1)	Not Supported	Not Supported	12.2(13)T, 12.3(1), 12.3(2)T	Not Supported	12.2(13)T, 12.3(1), 12.3(2)T	Not Supported	Not Supported
NM-VPN/MP	Not Supported	Not Supported	12.3(5c)/12.3(6), 12.3(7)T	Not Supported	Not Supported	Not Supported	12.1(3a)X11, 12.2(1), 12.2(2)T, 12.3(1), 12.3(2)T	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
AIM-VPN/BPII-PLUS	12.3(8)T	Not Supported	Not Supported	12.3(8)T	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
AIM-VPN/EPII-PLUS	Not Supported	Not Supported	Not Supported	12.3(8)T	Not Supported	Not Supported	Not Supported	Not Supported	12.3(5c)/12.3(6), 12.3(7)T	Not Supported	Not Supported	Not Supported
AIM-VPN/HP11-PLUS	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	12.3(5c)/12.3(6), 12.3(7)T	Not Supported	12.3(5c)/12.3(6), 12.3(7)T	Not Supported	Not Supported

Software Prerequisites: Cisco IOS software with the "IPSEC" or "Advanced Security" or higher feature set and maximum ONE Encryption modules/AIMs per Router

[Return to Top](#)

#### AIM-ATM, AIM-VOICE-30, AIM-ATM-VOICE-30



#### AIM-ATM, AIM-VOICE-30, AIM-ATM-VOICE-30

Product	Description	Features
AIM-ATM	ATM SAR Advanced Integration Module	<ul style="list-style-type: none"> <li>AAL1,2, and 5 Support.</li> <li>PVC/SVC support.</li> <li>Up to 30 Voice channels of AAL2 (AIM-ATM requires NM-HDV for voice support)</li> <li>Up to 4 T1/E1 channels of AAL5 (with IMA support).</li> <li>Up to 2048 VCs.</li> <li>IEFT PPP over ATM Support.</li> </ul>
AIM-ATM-VOICE-30	SAR and 30 Channel T1/E1 Digital Voice module	
AIM-VOICE-30	30 Channel T1/E1 Digital Voice module	

#### Platform Support

IOS Support	1800	2600	2600XM	2801	2811, 2821, 2851	3620, 3640	3631	3660	2691, 3725, 3745
AIM-ATM	Not Supported	12.2(2)XA, 12.2(8)T, 12.3(1)	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	12.3(8)T4	Not Supported	12.3(2)T	12.2(2)XB, 12.2(8)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2(13)T, 12.2(1) 12.3(1), 12.3(2)T



AIM-ATM-VOICE-30	Not Supported	12.2(2)XB, 12.2(8)T, 12.3(1)	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	Not Supported	Not Supported	Not Supported	12.2(2)XB, 12.2(8)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2(13)T, 12.2(1), 12.3(2)T
AIM-VOICE-30	Not Supported	12.2(2)XB, 12.2(8)T, 12.3(1)	12.2(8)T1, 12.2(11)YT, 12.3(1), 12.3(2)T	Not Supported	Not Supported	Not Supported	Not Supported	12.2(2)XB, 12.2(8)T, 12.2(11)YT, 12.3(1), 12.3(2)T	12.2(13)T, 12.2(1), 12.3(2)T

Requires Cisco IOS "Plus" or "SP Services" Feature Sets

[Return to Top](#)

## AIM-CUE



## AIM-CUE

### Product Description

The Cisco Unity Express advanced integration module is fully self-contained with dedicated onboard processing, memory and storage. And, because the advanced integration module is internally installed on the router, it frees external interface slots for other services like analog and digital voice, VPN acceleration or switching.

AIM-CUE Advanced integration module (AIM-CUE) has a robust onboard microprocessor. Please note the Cisco Unity Express as of version 2.0, now comes with 1GIG compact flash storage.

AIM-ATM-VOICE-30 Cisco Unity Express - 1GB Compact Flash

AIM-CUE-512CF Cisco Unity ExpressCompact - 512MB Compact Flash

### Platform Support

IOS Support 2600XM 2691 2801,2811,2821,2851 3725, 3745 3825,3845

AIM-CUE 12.3(7)T 12.3(7)T 12.3(8)T4 12.3(7)T 12.3(11)T

### Notes:

1. Requires IP Voice feature set.
2. Requires Cisco Unity Express License.

[Return to Top](#)