



PRODUCT BULLETIN NO. 2284

END-OF-SALE AND END-OF-LIFE ANNOUNCEMENT FOR NM-4T1-IMA, NM-4E1-IMA, NM-8T1-IMA, AND NM-8E1-IMA NETWORK MODULES FOR THE CISCO 2600, 2600XM, 3600, AND 3700 SERIES

The NM-4T1-IMA, NM-4E1-IMA, NM-8T1-IMA, and NM-8E1-IMA network modules were introduced for the Cisco 2600 and 3600 Series in 1999. These multi-port ATM modules allow service provider and enterprise customers to cost-effectively increase bandwidth and extend multiservice capabilities to remote branch office locations through ATM. Cisco is announcing the End-of-Sales of these network modules, with a last sale date of March 31, 2004.

AFFECTED PRODUCTS

Table 1

Products Affected by This End of Sales Announcement

Product	Description
NM-4T1-IMA	4-port T1 ATM Network Module with IMA
NM-4E1-IMA	4-port E1 ATM Network Module with IMA
NM-8T1-IMA	8-port T1 ATM Network Module with IMA
NM-8E1-IMA	8-port E1 ATM Network Module with IMA

RECOMMENDED REPLACEMENT PRODUCTS FOR NM-4T1-IMA AND NM-4E1-IMA

The recommended replacement product is the Advanced Integration Module for ATM (AIM-ATM) together with the T1/E1 Voice WAN Interface Cards (VWICs). A single AIM-ATM module supports up to 4 T1/E1 ports. In platforms with two AIM slots, two AIM-ATM modules can be used. T1/E1 VWICs are available with a density of 1 or 2 ports.

The AIM-ATM allows flexible configuration of ATM ports. Depending on the requirements, between one and four ports can be used per AIM-ATM. The AIM-ATM has improved features and functionality, and similar performance levels to the NM-4T1-IMA and NM-4E1-IMA. In addition, the AIM-ATM solution together with VWICs does not require a Network Module (NM) slot, which can be used for other advanced services.

See tables below for details:

Table 2
Recommended Replacement Parts

Product	Description
AIM-ATM	High Performance ATM Advanced Integration Module
AIM-ATM-VOICE-30	ATM SAR and 30 Channel Voice/Fax AIM
VVIC-1MFT-T1 VVIC-1MFT-E1	1-Port RJ-48 Multiflex Trunk—T1 1-Port RJ-48 Multiflex Trunk—E1
VVIC-2MFT-T1 VVIC-2MFT-E1	2-Port RJ-48 Multiflex Trunk—T1 2-Port RJ-48 Multiflex Trunk—E1
AIM-ATM-1T1 AIM-ATM-1E1	High Performance ATM AIM/T1 Bundle, AIM-ATM with one VVIC-1MFT-T1 High Performance ATM AIM/E1 Bundle, AIM-ATM with one VVIC-1MFT-E1
AIM-ATM-4T1 AIM-ATM-4E1	High Performance ATM AIM/T1 Bundle, AIM-ATM with two VVIC-2MFT-T1 High Performance ATM AIM/E1 Bundle, AIM-ATM with two VVIC-2MFT-E1

Table 3
Feature Comparison

	AIM-ATM	NM-4T1-IMA, NM-4E1-IMA
AAL2/AAL5	Yes/Yes	Yes/Yes
UNI Versions	3.0, 3.1, 4.0	3.0, 3.1, 4.0
Number of Ports	1, 2, 3, or 4	4
Number of IMA groups	Up to 4 groups	Up to 4 groups
VoATM	AAL2 and AAL5 by hardware	AAL2 by software AAL5 by hardware
Number of VCs	1024 in total 255 per sub-interface	1024 in total 255 per sub-interface
CoS	CBR, VBR-rt, VBR-nrt, ABR, UBR	VBR-rt, VBR-nrt, ABR, UBR
IMA Version	1.1	1.0
PCR/SCR	Min 32 kbps 1 kbps granularity	Min 64 kbps 8 kbps granularity

Please see AIM-ATM Data Sheet for further details:

http://www.cisco.com/en/US/products/hw/routers/ps274/products_data_sheet09186a0080088753.html

Table 4

AIM-ATM Minimum IOS Requirement

Product	Minimum IOS Release Requirement
Cisco 2600	12.2(4)T, 12.3(1)
Cisco 2600XM	12.2(8)T1, 12.3(1)
Cisco 2691	12.2(13)T, 12.3(1)
Cisco 3660	12.2(4)T, 12.3(1)
Cisco 3700	12.2(13)T, 12.3(1)

RECOMMENDED REPLACEMENT PRODUCTS FOR NM-8T1-IMA AND NM-8E1-IMA

The recommended replacement for applications that require eight T1 or E1 ATM IMA ports is the PA-A3-8T1IMA or PA-A3-8E1IMA in the Cisco 7200 or Cisco 7400 platform, especially if IMA groups of five ports or more are required. For feature comparison see table below.

Table 5

Feature Comparison

	PA-A3-8T1IMA/PA-A3-8E1IMA	NM-8T1-IMA, NM-8E1-IMA
AAL2/AAL5	No/Yes	Yes/Yes
UNI Versions	3.0, 3.1, 4.0	3.0, 3.1, 4.0
Number of Ports	8	8
Number of IMA groups	Up to 4 groups	Up to 4 groups
VoATM	AAL5 by hardware	AAL2 by software AAL5 by hardware
Number of VCs	4096 in total 512 per sub-interface	1024 in total 255 per sub-interface
CoS	VBR-nrt, ABR, UBR	VBR-rt, VBR-nrt, ABR, UBR
IMA Version	1.0	1.0

Please see PA-A3-8T1IMA/PA-A3-8E1IMA Data Sheet for further details:

http://www.cisco.com/en/US/prod/collateral/modules/ps2033/ps66/product_data_sheet09186a0080091d75.html

Table 6

PA-A3-T1IMA/PA-A3-E1IMA Minimum IOS Requirement for Cisco 7200 Series

Product	Minimum IOS Release Requirement
PA-A3-T1IMA	12.0(7)XE, 12.0(11)S, 12.1(1)E, 12.1(5)T,
PA-A3-E1IMA	12.1(14)E, 12.2(1), 12.2(2)T, 12.3(1)

Table 7

PA-A3-T1IMA/PA-A3-E1IMA Minimum IOS Requirement for Cisco 7400 Series

Product	Minimum IOS Release Requirement
PA-A3-T1IMA	12.2(0)BW, 12.2(0)S, 12.2(0)T, 12.2(1)DX,
PA-A3-E1IMA	12.2(2)DD, 12.2(4)B, 12.3(1)

Note: For applications that require eight T1/E1 ATM IMA ports but not more than four ports per IMA group, two AIM-ATMs with four VWICs can be used. The Cisco 2691 and the Cisco 3700 series have two AIM slots and each slot can carry an AIM-ATM modules. As the platforms have three WIC slots only, in addition a WIC carrier module (NM-2W, NM-1FE2W-V2, NM-2FE2W-V2, or NM-1FE1R2W) is required.

END OF LIFE MILESTONES

The End of Life milestones for the NM-4T1-IMA, NM-4E1-IMA, NM-8T1-IMA, and NM-8E1-IMA are listed in the table below.

Table 8

NM-4T1-IMA, NM-4E1-IMA, NM8T1-IMA, and NM-8E1-IMA End of Life Milestones

Milestone	Description	Date
End-of-life announcement	The document that announces the end of sale and end of life of a product to the general public.	October 1, 2003
End of Sale	The last date to order the product through Cisco point-of-sale mechanisms. The product is no longer for sale.	March 31, 2004
Last shipment date	The last-possible ship date that can be requested of Cisco and/or its contract manufacturers. Actual ship date is dependent on lead-time.	June 30, 2004
End of Routine failure analysis	The last possible date a routine failure analysis may be performed to determine the cause of product failure or defect.	March 31, 2005
End of new service attachment	For equipment and software that is not covered by a service-and-support contract, this is the last date to order a new service-and-support contract or add the equipment and/or software to an existing service and support contract.	March 31, 2005
End of software maintenance	The last date that Cisco Engineering may release any final software maintenance releases or bug fixes. After this date, Cisco Engineering will no longer, develop, repair, maintain, or test the product software.	March 31, 2007
End of service contract renewal	The last date to extend or renew a service contract for the product. The extension or renewal period cannot extend beyond the last date of support.	March 31, 2008
Product End of Life Date	The last date to receive service and support for the product. After this date, all support services (includes hardware repairs and exchanges) for the product are unavailable, and the product becomes obsolete.	March 31, 2009

SERVICE SUPPORT PROGRAMS

EoS refers to the time when certain products are no longer available for new purchases; it does not apply to service and support programs of the previously sold platforms. Cisco will continue to support the listed products through its SMARTnet and comprehensive maintenance programs. Customers with either of these service contracts are entitled to free software updates, 24-hour phone support through the Technical Assistance Center (TAC), and Advanced Replacement of Hardware for repairs. Comprehensive maintenance customers also receive onsite service. Customers who do not have a maintenance contract can purchase software updates and hardware repair services from Cisco to meet specific requirements rather than full-service coverage.

FOR ADDITIONAL INFORMATION

For more information about Cisco products, please contact your local Cisco account manager.



Corporate Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International
BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
Capital Tower
168 Robinson Road
#22-01 to #29-01
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the Cisco Web site at www.cisco.com/go/offices.

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Czech Republic
Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan
Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico
Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan •
Thailand
Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2004 Cisco Systems, Inc. All rights reserved. Cisco, Cisco Systems, and the Cisco Systems logo, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0304R)

Printed in the USA