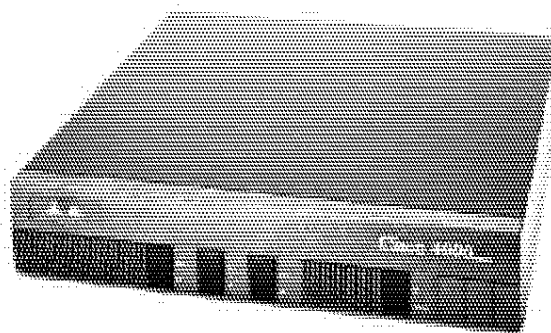


*Cisco 4000 Series Routers***Mid-Range Routing for Regional Office Ethernet LAN and Token Ring LAN Connectivity**

The Cisco 4000 series routers are highly cost-effective, modular platforms that reduce network costs and complexity by aggregating multiple LANs into a single multiprotocol network. Cisco 4000 series routers offer increased security through packet filtering between LANs and provide the bandwidth reservation features and performance required for advanced applications such as LAN-to-Asynchronous Transfer Mode (ATM) access, IBM data-link switching (DLSw), Advanced Peer-to-Peer Networking (APPN), and videoconferencing.

This series of routers provides regional offices with a broad range of capabilities and features across its three models: the Cisco 4000-M, Cisco 4500-M, and Cisco 4700-M. Each model offers Flash memory that stores the powerful Cisco Internetwork Operating System (Cisco IOS™) software and slots for optional network processor modules (NPMs)—individual removable cards used for external network connections including Ethernet, Token Ring, Fast Ethernet, ATM, Fiber Distributed Data Interface (FDDI), High-Speed Serial Interface (HSSI), Integrated Services Digital Network (ISDN), Basic Rate Interface (BRI) and Primary Rate Interface (PRI), E1/T1 serial, and high-density, low-speed serial.

The entry-level Cisco 4000-M router is designed with a Motorola 68030/40 40-MHz CPU for lower-density/ lower-speed LAN and WAN connectivity. The Cisco 4500-M is a midrange router that offers four times the processing power of the Cisco 4000-M by employing a 100-MHz reduced instruction set (RISC) CPU for supporting high-density/low-speed or mid-density/high-speed LAN and WAN connectivity. The top-of-the-line Cisco 4700-M router, with its 133-MHz RISC CPU, delivers six times the processing performance of the Cisco 4000-M. In addition to providing better support of high-speed media than the 4500-M, it has the reserve to excel in process-level tasks such as data compression, data encryption, tunneling, policy/ security, and protocol conversion applications.



These three midrange routers are ideal for several regional office environments. For example, many multi-regional offices have a mixture of legacy and LAN traffic and want to connect to servers or mainframe hosts at larger sites. The Cisco 4000-M can convert legacy protocols to IP protocols, prioritize traffic, and provide ISDN BRI connectivity. Larger offices often act as central repositories for data and applications accessed by smaller remote sites and mobile users. The Cisco 4500-M router gives them multiple WAN ports and WAN link dialin performance. Regional offices with multiple backbone networks such as FDDI and ATM often need to link them with a router for increased security and control, or they need to translate traffic between dissimilar LANs such as Token Ring and Ethernet. The Cisco 4700-M router gives them high performance for these processor-intensive applications with a processing power reserve for the future.

Features/Benefits at a Glance

The Cisco 4000 series includes three routers, each designed for different regional office demands and levels of functionality.

Cisco 4000-M Modular Router

- A 40-MHz Motorola 68EC030 processor
- Three slots for adding NPMs (see Table 1)
- 8 MB of main DRAM (upgradable to 32 MB), 4 MB of system Flash, 4 MB of boot Flash, and 4 MB of shared DRAM
- A full range of powerful Cisco IOS software features

Cisco 4500-M Modular Router

- A 100-MHz, 64-bit IDT Orion RISC processor that excels in processor-intensive router operations
- Three slots for adding NPMs (see Table 1)
- Protocol translation between Telnet, local-area transport (LAT), and X.25 for internetworking nonhomogeneous environments
- 16 MB of main DRAM (upgradable to 32 MB), 4 MB of system Flash, 4 MB of boot Flash, and 4 MB of shared DRAM

Cisco 4700-M Modular Router

- A 133-MHz, 64-bit IDT RISC processor and a 512-KB secondary memory cache
- Brings access performance to high-demand applications such as LAN-to-ATM or LAN-to-FDDI access, and IBM internetworking
- Three slots for adding NPMs (see Table 1)
- 16 MB of main DRAM (upgradable to 64 MB), 4 MB of system Flash, 4 MB of boot Flash, and 4 MB of shared DRAM
- Delivers processing speeds required for future technologies

For More Information on Cisco, Contact:

United States and Canada: 800 553-NETS (6387)

Europe: 32 2 778 4242

Australia: 61 2 9935 4107

Other: 408 526-7209

Or contact your local Cisco office

World Wide Web URL: <http://www.cisco.com>

Table 1. 4000 Series Network Processor Modules

	Number of Network Processor Modules Supported			Product Number
	Cisco 4000-M	Cisco 4500-M	Cisco 4700-M	
1 Ethernet Port	3	–	–	NP-1E
2 Ethernet Ports	3	3	3	NP-2E
6 Ethernet Ports	–	3	3	NP-6E
1 Token Ring Port	3	3	3	NP-1RV2
2 Token Ring Ports	3	3	3	NP-2R
1 Fast Ethernet Port	–	2	2	NP-1FE
1 ATM Port DS3/E3	–	2	2	NP-1A-DS3, NP-1A-E3
1 ATM Port OC-3	–	1	1	NP-1A-MM, NP-1A-SM
1 FDDI Port	1	2	2	NP-1F-D-MM, NP-1F-S-M, NP-1F-D-SS
1 HSSI Port	–	2	2	NP-1HSSI (1H 1997)
1 Ch/ISDN PRI Port (T1 or E1)	1	2	2	NP-CT1, NP-CE1U, NP-CE1B
4 ISDN BRI Ports	2	2	2	NP-4B
8 ISDN BRI Ports	1	2	2	NP-8B
2 Serial Ports	3	3	3	NP-2T
4 Serial Ports	3	3	3	NP-4T
2 Serial and 16 A/S Ports	–	2	2	NP-2T/16S
4 G.703 Ports	3	3	3	NP-4GB, NP-4GU



Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
World Wide Web URL:
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems Europe s.a.r.l.
Parc Evolic-Batiment L1/L2
16, Avenue du Quebec
BP 706-Villebon
91961 Courtaboeuf Cedex
France
Tel: 33 1 6918 61 00
Fax: 33 1 6928 83 26

**Intercontinental
Headquarters**
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
Tel: 408 526-7660
Fax: 408 526-4646

**Latin American
Headquarters**
Cisco Systems, Inc.
790 N.W. 107th Avenue
Suite 102
Miami, FL 33172
Tel: 305 228-1200
Fax: 305 222-8456

Japanese Headquarters
Nihon Cisco Systems K.K.
Fuji Building
3-2-3 Marunouchi
Chiyoda-ku, Tokyo 100
Japan
Tel: 81 3 5219 6000
Fax: 81 3 5219 6010

Cisco Systems has over 190 offices in the following countries. Addresses, phone numbers, and fax numbers are listed on the
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