

Cisco 2600 Series Modular Access Router

Cisco Systems offers a new level of versatility, integration, and power to remote branch offices with the Cisco 2600 series modular access router family.

The Cisco 2600 series shares modular interfaces with the popular Cisco 1600 and 3600 series, providing a cost-effective solution to meet today's remote branch office needs and for evolving applications such as:

- Multiservice voice/data integration
- Departmental dial services
- Extranet/VPN access

The modular architecture of the Cisco 2600 series provides the versatility needed to adapt to changes in network technology as new services and applications become available. Driven by a powerful RISC processor, the Cisco 2600 series provides the extra power needed to support the advanced quality of service (QoS), security, and network integration features required in today's remote branch offices.

The Cisco 2600 series features single or dual-Ethernet LAN interfaces, two Cisco WAN interface card slots, a Cisco network module slot, and a new Advanced Integration Module (AIM) slot.

The WAN interface cards available for the Cisco 1600, 2600, and 3600 series routers support a variety of serial, Integrated Services Digital Network Basic Rate Interface (ISDN BRI), and integrated channel service unit/data service unit (CSU/DSU) options for primary and backup WAN connectivity. Network modules available for the Cisco 2600 and 3600 series support a range of high-density serial, dial concentration, and multiservice voice/data integration options.



Key Benefits

The Cisco 2600 series supports the value of end-to-end Cisco network solutions with the following benefits:

- **Multiservice integration**—Complementing the industry-leading Cisco 2500 series, the Cisco 2600 series extends the versatility, integration, and power of the Cisco 3600 series to smaller, remote branch offices. The Cisco 2600 series reinforces Cisco's commitment to add multiservice voice/data integration capabilities to its product portfolio, enabling corporate customers to control costs and allowing service providers to offer broader managed service options.
- **Investment protection**—Because the Cisco 2600 series supports field-upgradable modular components, customers can easily change network interfaces without a “forklift upgrade” of the entire remote branch office solution. The new AIM slot of the Cisco 2600 platform further protects investments by offering the expandability to support advanced services such as hardware-assisted data compression and data encryption.
- **Lower cost of ownership**—Integrating the functions of CSU/DSUs, ISDN Network Termination (NTI) devices, and other equipment found in remote branch office wiring closets in a single, compact unit provides a space-saving solution that can be managed remotely using network management applications such as CiscoWorks and CiscoView.
- **Part of a Cisco end-to-end solution**—As part of Cisco's comprehensive end-to-end networking solution, the Cisco 2600 series allows businesses to extend a cost-effective, seamless network infrastructure to the remote branch office.

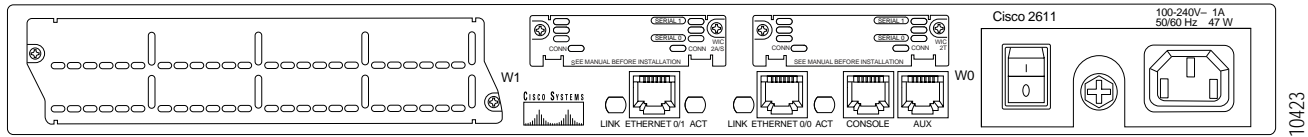
Key Features and Benefits

The Cisco 2600 series brings a cost-effective combination of versatility, integration, and power to remote branch offices with the key features listed in Table 1.

Table 1 Key Features and Benefits of the Cisco 2600 Series

Features	Benefits
Versatility	
Modular Architecture	<ul style="list-style-type: none"> • Network interfaces are field-upgradable to accommodate future technologies while providing a solution to meet today's needs • Additional interfaces can be added on a "pay as you grow" basis to accommodate network growth • LAN and WAN interface configuration is easily customized for individual needs
WAN interface cards and network modules shared with Cisco 1600 and 3600 Series routers	<ul style="list-style-type: none"> • Reduced cost of maintaining inventory of Cisco 1600, 2600, and 3600 Series modular components • Lower training costs for support personnel
Advanced Integration Module Slot	<ul style="list-style-type: none"> • Expandability for integration of advanced services such as hardware-assisted data compression and encryption
DC Power Supply option	<ul style="list-style-type: none"> • Allows deployment in DC power environments such as telecommunications carrier central offices
Power	
High-Performance RISC Architecture	<ul style="list-style-type: none"> • Support for advanced QoS features such as the Resource Reservation Protocol (RSVP), Weighted Fair Queuing (WFQ), and IP Precedence to reduce recurring WAN costs • Enables security features such as data encryption, tunneling, and user authentication and authorization to protect data assets • Support for cost-effective, software-based data compression and data encryption • Integration of legacy networks via data link switching plus (DLSW+) and Advanced Peer-to-Peer Networking (APPN) • High-speed Ethernet-to-Ethernet routing (12,000 – 15,000 pps) for maximum scalability
Full Cisco IOS™ support	<ul style="list-style-type: none"> • Part of Cisco's end-to-end network solution
Manageability	
Integrated CSU/DSU and NT1 Options	<ul style="list-style-type: none"> • Enables remote management of all Customer Premise Equipment (CPE) elements for higher network availability and lower operational costs
Support for CiscoWorks and CiscoView	<ul style="list-style-type: none"> • Allows simplified management of all integrated and stackable components
Support for Cisco Voice Manager (CVM)	<ul style="list-style-type: none"> • Reduces the cost of deploying and managing integrated voice/data solutions
Enhanced Setup Feature	<ul style="list-style-type: none"> • Context-sensitive questions guide the user through the router configuration process, allowing faster deployment
AutoInstall	<ul style="list-style-type: none"> • Configures remote routers automatically across a WAN connection to save cost of sending technical staff to the remote site
Reliability	
Redundant Power Supply option	<ul style="list-style-type: none"> • RPS can be shared with other network components such as the Cisco Catalyst 1900 series to protect the network from downtime due to power failures
Dial-on-Demand Routing	<ul style="list-style-type: none"> • Allows automatic backup of WAN connection in case of a primary link failure
Dual Bank Flash Memory	<ul style="list-style-type: none"> • Backup copy of the Cisco IOS software can be stored in Flash memory
Ergonomic Design	
LED Status Indicators	<ul style="list-style-type: none"> • Provide at-a-glance indications for power, RPS status, network activity, and interface status
All Network Interfaces Located on Back of Unit	<ul style="list-style-type: none"> • Simplifies installation and cable management for maximum uptime
Easy-to-Open Chassis Design	<ul style="list-style-type: none"> • Allows fast and easy access for installation of memory or AIM
Multispeed Fan	<ul style="list-style-type: none"> • Enables quiet operation in office environments

Figure 1 Cisco 2600 Series Back Panel View (Cisco 2611 shown)



Hardware/Software Options

The Cisco 2600 series is available in two base configurations:

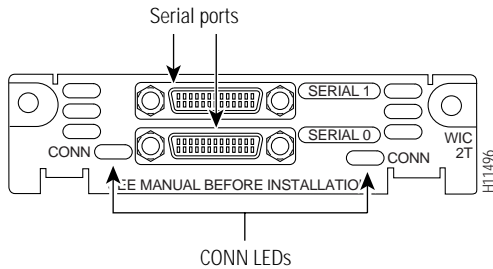
- Cisco 2610—One Ethernet port
- Cisco 2611—Two Ethernet ports

Each model also has two WAN interface card slots, one network module slot, and one AIM slot (see Figure 1).

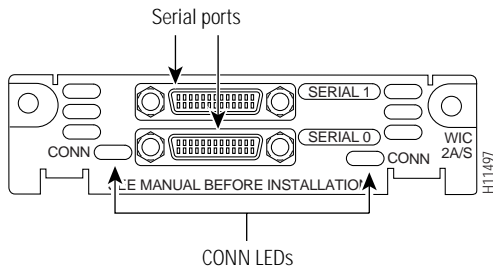
WAN Interface Card Options

The Cisco 2600 series supports existing WAN interface cards available for the Cisco 1600 and 3600 series, as well as new dual-port, high-speed serial and dual-port, async/sync WAN interface cards to maximize interface density and slot efficiency. The new dual-serial port WAN interface cards feature Cisco's new, compact, high-density Smart Serial connector to support a wide variety of electrical interfaces when used with the appropriate transition cable.

Dual-Port High-Speed Serial WIC



Dual-Port Async/Sync Serial WIC



With two WAN interface card slots per chassis, the Cisco 2600 series supports the WAN interface cards indicated in Table 2.

Table 2 WAN Interface Cards and Voice Interface Cards for Cisco 2600 Series

WIC-1DSU-T1	T1/fractional T1 CSU/DSU ¹
WIC-1DSU-56K4	One-port four-wire 56-kbps CSU/DSU
WIC-1T	One-port high-speed serial
WIC 2T	Dual high-speed serial (new)
WIC-2A/S	Two-port async/sync serial (new)
WIC-1B-S/T	One-port ISDN BRI
WIC-1B-U	One-port ISDN BRI with NT1
VIC-2FXS	Two-port FXS voice/fax interface card for voice/fax network module
VIC-2FXO	Two-port FXO voice/fax interface card for voice/fax network module
VIC-2E/M	Two-port E&M voice/fax interface card for voice/fax network module

1. Available for Cisco 2600 Series in July 1998

Network module Options

The Cisco 2600 series supports the network modules listed in Table 3; these modules are shared with the Cisco 3600 series.

Table 3 Network modules for Cisco 2600 Series

NM-1V	One-slot voice/fax network module
NM-2V	Two-slot voice/fax network module
NM-4A/S	4-port async/sync serial network module
NM-8A/S	8-port async/sync serial network module
NM-16A	High-density 16-port async network module
NM-32A	High-density 32-port async network module

Cisco IOS Software

With support for the full range of available Cisco IOS feature sets, the Cisco 2600 series supports the broadest range of network services in the industry. The Cisco 2600 series supports Cisco IOS Release 11.3(2) and later.

Table 4 Cisco IOS Software Feature Sets and Memory Requirements for Cisco 2600 Series

	IP	IP/IPX/AT/DEC	Remote Access Services	Enterprise	Enterprise/ APPN
Base Feature Sets	4-MB Flash 16-MB DRAM	8-MB Flash 16-MB DRAM	4-MB Flash 16-MB DRAM	—	—
Plus Feature Sets	8-MB Flash 20-MB DRAM	8-MB Flash 24-MB DRAM	—	8-MB Flash 24-MB DRAM	8-MB Flash 32-MB DRAM
Plus 40 Feature Sets with 40-bit encryption	8-MB Flash 20-MB DRAM	—	—	8-MB Flash 24-MB DRAM	8-MB Flash 32-MB DRAM
Plus 56 Feature Sets with 56-bit encryption	8-MB Flash 20-MB DRAM	—	—	8-MB Flash 24-MB DRAM	8-MB Flash 32-MB DRAM

Technical Specifications

Processor: Motorola MPC860 40 MHz

Flash Memory: 4 to 16 MB

System Memory (DRAM): 16 to 64 MB

WAN Interface Card Slots: 2

Network Module Slot: 1

AIM Slot: 1

Console/Aux Speed: 115.2 kbps (maximum)

Width: 17.5 in. (44.5 cm)

Height: 1.69 in. (4.3 cm)

Depth: 11.8 in. (30 cm)

Weight (min): 8.85 lb. (4.02 kg)

Weight (max): 10.25 lb. (4.66 kg)

Power Dissipation: 72W (maximum)

AC Input Voltage: 100 to 240 VAC

Frequency: 47 to 64 Hz

AC Input Current: 1.5 amps

DC Input Voltage: -38V to -75V

DC Input Current: 2 amps

Operating Temperature: 32 to 104 F (0 to 40 C)

Nonoperating Temperature: -13 to 158 F (-25 to 70 C)

Relative Humidity: 5 to 95% noncondensing

Noise Level (min): 38 dbA

Noise Level (max): 42 dbA

The Cisco 2600 series conforms to a number of safety, EMI, immunity and network homologation standards. Details of the regulatory specifications can be found at: http://www.cisco.com/public/Support_root.shtml



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