



Installing, Replacing, and Upgrading Components in Cisco Modular Access Routers and Integrated Services Routers

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This document contains links to online procedures for installing, replacing, and upgrading components in the following series of Cisco modular access routers, integrated services routers, and integrated service routers G2:

- Cisco 1600 series
- Cisco 1700 series
- Cisco 1800 series
- Cisco 1900 series
- Cisco 2600 series
- Cisco 2800 series
- Cisco 2900 series
- Cisco 3600 series
- Cisco 3700 series
- Cisco 3800 series
- Cisco 3900 series

It links to procedures for the following components:

- Rack-mounting brackets
- Network modules
- WAN and voice interface cards
- PC Card flash memory
- External CompactFlash memory cards
- Internal flash memory
- Internal CompactFlash memory cards



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- Advanced integration modules (AIMs)
- Small-form-factor pluggable (SFP) modules
- Internal services modules (ISMs)
- USB Modules
- DRAM and SDRAM
- Packet voice data modules (PVDMs)
- Wireless LAN antennas
- Power supplies
- Fan tray
- Motherboard

[Table 1](#) links to procedures for Cisco 1600 series and Cisco 1700 series routers.

[Table 2](#) links to procedures for Cisco 2600 series, Cisco 3600 series, and Cisco 3700 series routers.

[Table 3](#) links to procedures for Cisco 1800 series routers, both fixed-configuration and modular.

[Table 4](#) links to procedures for Cisco 2800 series, and Cisco 3800 series routers.

[Table 5](#) links to procedures for Cisco 1900 series, Cisco 2900 series, and Cisco 3900 series routers.



Warning

Blank faceplates and cover panels serve three important functions: they prevent exposure to hazardous voltages and currents inside the chassis; they contain electromagnetic interference (EMI) that might disrupt other equipment; and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place.

Statement 1029



Warning

The covers are an integral part of the safety design of the product. Do not operate the unit without the covers installed. Statement 1077

Table 1 **Component Installation for Cisco 1600 Series and Cisco 1700 Series Routers**

Component	Cisco 1600 Series	Cisco 1700 Series
Interface cards	Cisco Interface Cards	
PC Card flash memory	Optional Installations	—
Internal flash memory	—	Installing and Upgrading Memory in Cisco 1700 Series Routers

Table 1 *Component Installation for Cisco 1600 Series and Cisco 1700 Series Routers (continued)*

Component	Cisco 1600 Series	Cisco 1700 Series
DRAM	Installing or Replacing the DRAM SIMM in Cisco 1600 Series Routers	Installing and Upgrading Memory in Cisco 1700 Series Routers Installing and Upgrading Memory and Virtual Private Network Modules (Cisco 1701) Installing and Upgrading Memory and Virtual Private Network Modules (Cisco 1711 and Cisco 1712)
PVDMs	—	Installing and Upgrading Memory and Data Modules (Cisco 1750) Installing and Upgrading Memory and Data Modules (Cisco 1751) Installing and Upgrading Memory and Packet Voice Data Modules (Cisco 1760)

Table 2 *Component Installation for Cisco 2600 Series, Cisco 3600 Series, and Cisco 3700 Series Routers*

Component	Cisco 2600 Series	Cisco 3600 Series	Cisco 3700 Series
Rack-mounting brackets	Installing the Router	Installing the Router	Installing the Router
	Mounting Bracket Installation on Cisco 2691, Cisco 3631, and Cisco 3725 Routers		
Network modules	Cisco Network Modules		
Interface cards	Cisco Interface Cards		
PC Card flash memory	—	Installing and Configuring External Flash Memory Cards in Cisco 3600 Series Routers	—
External CompactFlash memory cards	Installing and Formatting Cisco 2691, Cisco 3631 and Cisco 3700 CompactFlash Memory Cards		
Internal flash memory	Upgrading System Memory, Internal Flash Memory, and Boot ROM in Cisco 2600 Series Routers	Upgrading System Memory in Cisco 3600 Series Routers	—
Internal CompactFlash memory cards	Installing and Formatting Cisco 2691, Cisco 3631 and Cisco 3700 CompactFlash Memory Cards		
AIMs	Installing Advanced Integration Modules in Cisco 2600 Series, Cisco 3600 Series, and Cisco 3700 Series Routers		
DRAM and SDRAM	Upgrading System Memory, Internal Flash Memory, and Boot ROM in Cisco 2600 Series Routers	Upgrading System Memory in Cisco 3600 Series Routers	Upgrading System Memory in Cisco 3700 Series Routers

Table 2 *Component Installation for Cisco 2600 Series, Cisco 3600 Series, and Cisco 3700 Series Routers (continued)*

Component	Cisco 2600 Series	Cisco 3600 Series	Cisco 3700 Series
Power supplies	Power Supply Installation	Installing Power Supplies in Cisco 3600 Series Routers	Installing AC Power Supplies in Cisco 3725 Routers Installing Field-Replaceable Units in Cisco 3745 Routers Installing Cisco –48 V IP Telephony Power Modules
	Cisco 600 W Redundant Power System		

Table 3 *Component Installation for Cisco 1800 Series Routers*

Component	Cisco 1800 Series (Fixed)	Cisco 1800 Series (Modular)
Rack-mounting brackets	Chassis Installation Procedures	Chassis Installation Procedures for Cisco 1800 Series Routers (Modular)
Network modules	—	—
Interface cards	—	Installing Interface Cards in Cisco 1800 Series Routers (Modular) Cisco Interface Cards
SFP modules	—	—
External CompactFlash memory cards	“Installing and Upgrading Modules” chapter in the Cisco 1800 Series Integrated Services Routers (Fixed) Hardware Installation Guide	Installing and Replacing CompactFlash Memory Cards on Cisco 1800 Series Routers (Modular)
USB modules	Cisco Access Router USB Flash Memory Module and USB eToken Hardware Installation Guide	Cisco Access Router USB Flash Memory Module and USB eToken Hardware Installation Guide
Wireless LAN antennas	Cisco wireless LAN antenna documents	—
AIMs DRAM and SDRAM	“Installing and Upgrading Modules” chapter in the Cisco 1800 Series Integrated Services Routers (Fixed) Hardware Installation Guide	Installing and Upgrading Internal Modules in Cisco 1800 Series Routers (Modular)
PVDMs Power supplies	“Installing and Upgrading Modules” chapter in the Cisco 1800 Series Integrated Services Routers (Fixed) Hardware Installation Guide	—
Fan tray Motherboard	—	—

Table 4 **Component Installation for Cisco 2800 Series and Cisco 3800 Series Routers**

Component	Cisco 2800 Series	Cisco 3800 Series
Rack-mounting brackets	Chassis Installation Procedures for Cisco 2800 Series Routers	Installing Cisco 3800 Series Routers in an Equipment Rack
Network modules	Installing Network Modules in Cisco 2800 Series Routers Cisco Network Modules	Installing Network Modules in Cisco 3800 Series Routers Cisco Network Modules
Interface cards	Installing Interface Cards in Cisco 2800 Series Routers Cisco Interface Cards	Installing Interface Cards in Cisco 3800 Series Routers Cisco Interface Cards
SFP modules	—	Installing SFP Modules in Cisco 3800 Series Routers
External CompactFlash memory cards	Removing and Installing CompactFlash Memory Cards in Cisco 2800 Series Routers	Installing CompactFlash Memory Cards in Cisco 3800 Series Routers
USB modules	Cisco Access Router USB Flash Memory Module and USB eToken Hardware Installation Guide	Cisco Access Router USB Flash Memory Module and USB eToken Hardware Installation Guide
AIMs DRAM and SDRAM	Installing and Upgrading Internal Modules in Cisco 2800 Series Routers	Installing and Upgrading Internal Components in Cisco 3800 Series Routers
PVDMs Power supplies	Installing and Upgrading Internal Modules in Cisco 2800 Series Routers	Installing and Upgrading Internal Components in Cisco 3800 Series Routers
Fan tray Motherboard	—	Installing and Upgrading Internal Components in Cisco 3800 Series Routers (Cisco 3845)

Table 5 *Component Installation for Cisco 1900 Series, Cisco 2900 Series, and Cisco 3900 Series Routers*

Component	Cisco 1900 Series	Cisco 2900 Series	Cisco 3900 Series
Rack-mounting brackets	Rack-Mounting the Chassis	Rack-Mounting the Chassis	Rack-Mounting the Chassis
Network modules	Cisco Network Modules		
Interface cards	Cisco Interface Cards		
CompactFlash memory cards	Installing and Replacing CompactFlash Memory Cards on Cisco 1900 Series Routers	Removing and Installing CompactFlash Memory Cards	
Internal Services Module (ISM)	Installing and Removing ISMs	Installing and Removing ISMs	
DRAM UDIMMs and DRAM DIMMs	Installing and Removing DRAM UDIMMs	Installing and Removing DRAM DIMMs	
Power supplies	Installing and Removing a Power Supply	Replacing Power Supplies and Redundant Power Supplies	
Blower	Installing a Blower	—	—
Federal Information Processing Standards (FIPs) Louver	—	Installing a FIPS Louver (Cisco 2911 routers only)	—
Packet Voice Data Modules (PVDM)	—	Installing and Removing PVDM3s Installing and Removing PVDM2s	
Fan tray or air filter	—	Replacing a Fan Tray or Air Filter	
Small-form-factor modules	—	Installing SFP Modules	

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