

## Cisco IAD880 Series Integrated Access Devices

**Q. What are the Cisco® IAD880 Series Integrated Access Devices?**

**A.** The Cisco IAD880 Series Integrated Access Devices are cost-effective fixed-configuration products for service providers offering managed services. The Cisco IAD880 Series is composed of fixed-configuration platforms with voice ports, WAN uplinks, embedded encryption acceleration, voice digital-signal-processor (DSP) on the motherboard, and intrusion-prevention-system (IPS) and IP Security (IPsec) features while maintaining a desktop form factor for space-saving service provider managed services deployments.

The Cisco IAD880 Series includes the models described in Table 1.

**Table 1.** Cisco IAD880 Series Models

Model	WAN Interface	LAN Interfaces	802.11b/g/n Option	Voice Ports	Integrated ISDN Dial Backup
Cisco IAD881	10/100-Mbps Fast Ethernet	4-port 10/100-Mbps managed switch (2 ports Power over Ethernet [PoE] capable)	Yes	4 Foreign Exchange Station (FXS) or 2 Basic Rate Interface (BRI)	–
Cisco IAD888	G.SHDSL	4-port 10/100-Mbps managed switch (2 ports PoE capable)	Yes	4 FXS or 2 BRI	Yes

**Q. Which products are available with the Cisco IAD880 Series?**

**A.** Table 2 shows the part numbers for the Cisco IAD880 Series.

**Table 2.** Cisco IAD880 Part Numbers

Model	Product Name
<b>Ethernet with FXS</b>	
IAD881F-K9	Cisco IAD881 Ethernet FXS Security Router
IAD881FW-GN-A-K9	Cisco IAD881 Ethernet FXS Security Router 802.11n FCC Compliant
IAD881FW-GN-E-K9	Cisco IAD881 Ethernet FXS Security Router 802.11n ETSI Compliant
<b>Ethernet with BRI</b>	
IAD881B-K9	Cisco IAD881 Ethernet BRI Security Router
IAD881BW-GN-A-K9	Cisco IAD881 Ethernet BRI Security Router 802.11n FCC Compliant
IAD881BW-GN-E-K9	Cisco IAD881 Ethernet BRI Security Router 802.11n ETSI Compliant
<b>G.SHDSL with FXS</b>	
IAD888F-K9	Cisco IAD888 G.SHDSL FXS Security Router with ISDN Backup
IAD888FW-GN-A-K9	Cisco IAD888 G.SHDSL FXS Security ISDN Backup 802.11n FCC Compliant
IAD888FW-GN-E-K9	Cisco IAD888 G.SHDSL FXS Security ISDN Backup 802.11n ETSI Compliant
<b>G.SHDSL with BRI</b>	
IAD888B-K9	Cisco IAD888 G.SHDSL BRI Security Router with ISDN Backup
IAD888BW-GN-A-K9	Cisco IAD888 G.SHDSL BRI Security ISDN Backup 802.11n FCC Compliant
IAD888BW-GN-E-K9	Cisco IAD888 G.SHDSL BRI Security ISDN Backup 802.11n ETSI Compliant

- Q. Is the Cisco IAD880 Series different from the Cisco 880 Integrated Services Router?**
- A.** Yes, the Cisco IAD880 Series is a fixed-configuration platform primarily for service provider managed services for private branch exchange (PBX)/IP PBX interconnect. It has built-in voice support for integrating PBXs/analog systems through the BRI or FXS ports.
- Q. Is the Cisco IAD880 Series generally available to all customers?**
- A.** The Cisco IAD880 Series has been purpose built for service providers providing managed services. You can deploy the Cisco IAD880 Series only in one of the following deployment scenarios:
- PBX or IP PBX interconnects
  - Managed Session Initiation Protocol (SIP) Trunking for IP PBX interconnects
- Q. Can I customize the Cisco IAD880 Series?**
- A.** Cisco IAD880 Series devices cannot be customized. There are various models with specific voice and WAN interfaces (refer to Table 1).
- Q. Does the Cisco IAD880 Series need special Cisco IOS® Software images?**
- A.** Yes; the Cisco IAD880 Series need the Universal image: c880voice-universalk9-mz.
- Q. Is the Cisco IAD880 Series supported in enterprise branch office deployments?**
- A.** The Cisco IAD880 Series is not supported for enterprise branch office networks. The Cisco 880SRST Integrated Services Router, Cisco 1861 Integrated Services Router, and Cisco 2800 and 3800 Series Integrated Services Routers are the lead platforms for the branch office markets.
- Q. Can I deploy the Cisco IAD880 Series in unified communications installations?**
- A.** The Cisco IAD880 Series is built primarily for PBX and IP PBX interconnects. The Cisco IAD880 Series does not support Cisco Unified Communications integration, Cisco Unified Communications Express, or Cisco Survivable Remote Site Telephony (SRST).
- Q. How many concurrent calls are supported on the Cisco IAD880 Series?**
- A.** Only four concurrent voice/fax/modem calls are supported on the Cisco IAD880 Series.
- Q. Can I install more digital signal processors (DSPs) in the Cisco IAD880 Series?**
- A.** No. The Cisco IAD880 Series has a fixed DSP preinstalled on the model you order.
- Q. Which call control protocols are supported by the Cisco IAD880 Series?**
- A.** The Cisco IAD880 Series supports Media Gateway Control Protocol (MGCP) 0.1, MGCP 1.0, H.323v1/v2/v3/v4, and SIPv2.
- Q. Which codecs are available on the Cisco IAD880 Series?**
- A.** The Cisco IAD880 Series supports G.711 (ulaw and alaw), G.729, G.729a/b, G.726 and G.728.
- Q. Does the Cisco IAD880 Series support T.38, modem/fax relay, or passthrough mode?**
- A.** Yes. The Cisco IAD880 Series supports T.38 fax, Cisco Fax Relay, and fax/modem passthrough.
- Q. What are the analog and digital voice options on the Cisco IAD880 Series?**
- A.** The Cisco IAD880 Series offers a choice of either of the following:
- Four FXS analog voice ports
  - Two BRI digital voice ports

**Q. Which call agents interoperate with the Cisco IAD880 Series?**

**A.** The Cisco IAD880 Series is interoperable with the Cisco BTS 10200 Softswitch, BroadSoft, and Sylanro call agents.

**Q. What is the purpose of the reset button?**

**A.** The reset button is used to restore the router to the default factory settings if pressed within 5 seconds of router powerup. Here is how it works:

- The router will not react to the reset button if pressed after the 5 seconds of powerup.
- When the reset button is pressed within 5 seconds of bootup and there is no valid xxx.cfg file in the flash memory, the router boots up with the factory defaults stored in NVRAM.
- When the reset button is pressed within 5 seconds of bootup and there is a valid xxx.cfg file in the flash, the router boots up with the xxx.cfg file and avoids the startup-config file in NVRAM.

**Q. What is the virtual auxiliary port function?**

**A.** On the Cisco IAD880 Series, the console port supports modem control signals. When an external modem is connected to this port, this interface can be used for out-of-band remote management of the router or as a backup WAN interface. An optional RJ-45 to DB-25 male straight-through cable is available as an orderable option to connect modems to this port. A limited set of modems and terminal adapters has been tested, but any Hayes-compatible modem or terminal adapter can be used to connect to this port. The console port will behave like a standard Cisco auxiliary (AUX) port if configured as such and can provide bit rates up to 115.2 kbps.

**Q. Which wireless LAN standard does the Cisco IAD880 Series support?**

**A.** The Cisco IAD880 Series supports 802.11b/g/n.

**Q. Can the integrated access point on the Cisco IAD880 Series be managed by a wireless LAN controller?**

**A.** The Cisco IAD880 Series can be managed by a wireless LAN controller when running in the unified mode.

**Q. Which Cisco IOS Software release is supported on the Cisco IAD880 Series?**

**A.** The Cisco IAD880 Series will ship with Cisco IOS Software Release 12.4(15)XZ1. These platforms will be supported by Cisco IOS Software Release 12.4(20)T when it becomes available the second half of 2008.

**Q. What Cisco IOS Software image and feature sets are offered for the Cisco IAD880 Series?**

**A.** The Cisco IAD880 Series support the Universal image and two feature sets. A Universal image includes all features supported by a given platform. The active feature set is enabled with the Cisco Software Activation feature.

The following Universal image is supported by the Cisco IAD880 Series:

- c880voice-universalk9-mz: Universal image for the Cisco IAD880 Series

The Advanced IP Services feature set is also supported on the Cisco IAD880 Series.

**Q. What is the Cisco Software Activation feature?**

**A.** Software Activation authorizes and enables the usage of a Cisco software feature or feature set. A special file contained in the device, called a license file, is examined by Cisco software

when the device is powered on. Based on the license file installed, Cisco software enables the appropriate feature set(s).

**Q. What features require software license and activation on the Cisco IAD880 Series?**

- A.** The default feature set for the Cisco IAD880 Series is Advanced Security. The appropriate license file is installed on the platform by Cisco manufacturing to support the default feature set. An upgrade to the Advanced IP Services feature set on the Cisco IAD880 Series would require software license and activation. In addition, the subscription-based Content Filtering feature requires a calendar-based subscription.

Please refer to the Software Activation Q&A for more information.

**Q. Does the Cisco IAD880 Series Advanced Security feature set offer the same features as the Advanced Security feature set supported by the Cisco 1800, 2800, and 3800 Series Integrated Service Routers?**

- A.** The Advanced Security Feature set supported by the Cisco IAD880 Series does not include features such as Dynamic Multipoint VPN (DMVPN), Group Encrypted Transport VPN, Secure Sockets Layer (SSL) VPN, IPS, and Content Filtering, which are available with the Advanced Security feature set of the Cisco 1800, 2800, and 3800 Series.

**Q. Can I use IPS or IPsec features on the Cisco IAD880 Series?**

- A.** Yes, you can use IPS and IPsec features on the Cisco IAD880 Series. You need to use the software activation and use the Advanced IP Services feature set.

**Q. Can I boot a Cisco IOS Software image and Cisco IOS Software configuration file from the USB flash installed on a Cisco IAD880 Series?**

- A.** During the router reload process, the Cisco IAD880 Series will automatically search for a bootable Cisco IOS Software image on the USB flash if no bootable image is available on the onboard flash. A Cisco IOS Software configuration file can be booted from the USB flash only if the Cisco IOS Software command "boot config usbflash0:" is part of the router startup configuration stored in NVRAM.



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