

Cisco 880 Series Integrated Services Routers

A secure, flexible, easy-to-manage router to connect small businesses

Cisco 880 Series Integrated Services Routers

Cisco® 880 Series Integrated Services Routers offer a highly secure way for your employees to connect to the business resources and people they need to stay productive. This family of routers combines Internet access, security, and wireless services at broadband speeds in a single, secure device that is simple for small businesses to use and manage. Easy deployment and centralized management features simplify installation and network administration.

Product Overview

Cisco 880 Series Integrated Services Routers are fixed-configuration routers that provide the performance, security, mobility, and manageability you need for effective business collaboration. This flexible family of routers lets you connect your business in the way that best meets your needs by offering concurrent services over broadband. You can connect to the Internet over 3G, Metro Ethernet, and multiple types of DSL. The Cisco 880 Series Integrated Services Routers offer:

- Broadband access for high performance
- Collaborative services and data communication to boost business productivity
- Choice of redundant WAN links, including Fast Ethernet, Symmetrical High-Data-Rate DSL (G.SHDSL), 3G¹, and ISDN, to help ensure business continuity
- Enhanced security to protect business information such as customer records, budgets, competitive information, and credit card data:
 - Stateful inspection firewall to help minimize threats to web traffic and email by blocking unwanted traffic
 - Intrusion prevention system (IPS) that detects and stops attacks, worms, and viruses before they can affect the network
 - Site-to-site remote access and dynamic VPN services to provide secure access for remote workers
 - Content filtering with keyword and URL blocking to protect against adware, malware, and spyware
- 4-port 10/100 Fast Ethernet managed switch with VLAN support and optional Power over Ethernet (PoE) ports for connecting additional network devices
- Optional secure 802.11g/n access point to enable mobility within the workplace
- Wireless security to safeguard traffic
- Auxiliary/console port to connect a console or external modem
- USB 1.1 port for security eToken credentials, booting from USB, and configuration loading
- Cisco Configuration Professional to provide easy setup, deployment, and remote management

¹ Available in the second half of calendar year 2008.

- Sophisticated quality of service (QoS) features to prioritize traffic to enhance voice and video performance

Figure 1 shows a Cisco 881 Integrated Services Router.

Figure 1. Cisco 881 Integrated Services Router with Integrated 802.11n Access Point



Table 1 lists the models that currently make up the Cisco 880 Series.

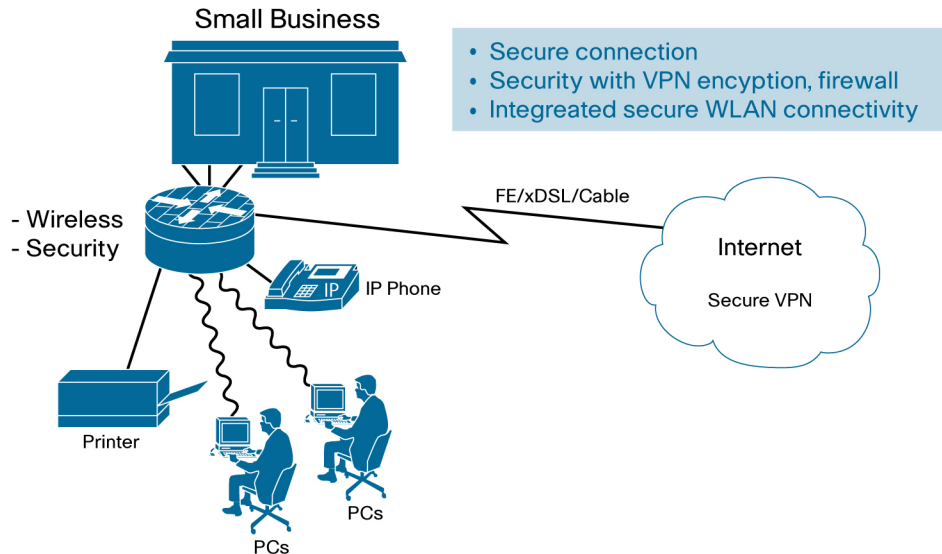
Table 1. Cisco 880 Series Models

| Model | WAN Interface | LAN Interfaces | 802.11g/n Option | Integrated 3G ² | Integrated ISDN Dial Backup |
|-----------|---------------------------|-----------------------------------|------------------|-----------------------------------|-------------------------------------|
| Cisco 881 | 10/100-Mbps Fast Ethernet | 4-port 10/100-Mbps managed switch | Yes (Cisco 881W) | Yes (Cisco 881G and Cisco 881 WG) | – |
| Cisco 888 | G.SHDSL | 4-port 10/100-Mbps managed switch | Yes (Cisco 888W) | Yes (Cisco 888G and Cisco 888WG) | Yes (Cisco 888 and Cisco 888W only) |

Deployment Scenarios

Figure 2 shows a scenario for deploying the Cisco 880 series to provide remote and on-site Internet connectivity.

Figure 2. Highly Secure Internet Connectivity for Small Businesses

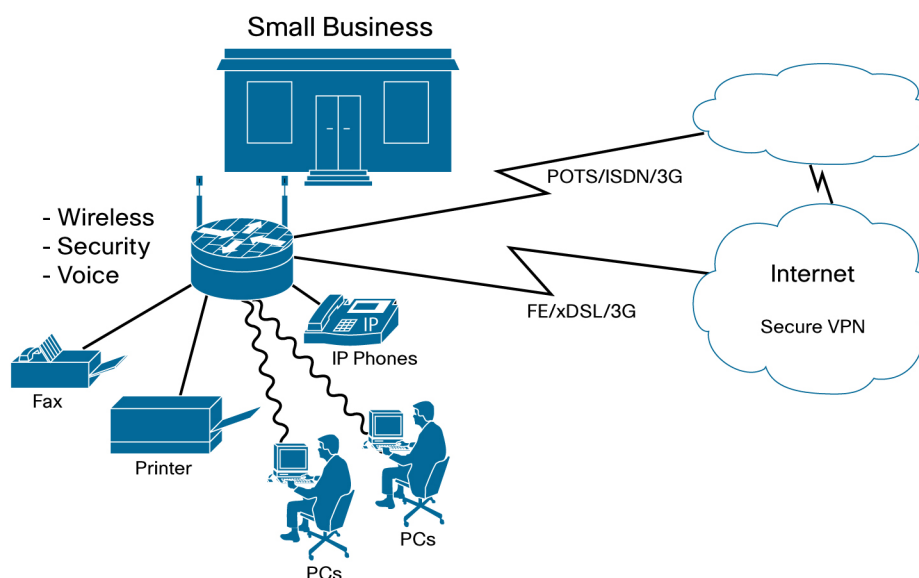


² Available in the second half of calendar year 2008.

The Cisco 880 Series is ideally suited for small office and remote office deployments. The router provides a highly secure onsite Internet connection, using the broadband connection that works best for your business. In addition, it lets you extend your network beyond the main office to employees working from home, at Wi-Fi hotspots, or at other offices. These offsite employees can use the same network resources available in the main office, using a highly secure VPN. Built-in wireless networking lets you enable employees to stay securely connected while roaming around the workplace. You can centrally manage the remote site to quickly troubleshoot any network issues. Together, the built-in wireless and security services simplify the management of network devices.

Figure 3 shows a scenario for deploying the Cisco 880 Series with a backup 3G network connection.

Figure 3. 3G Deployment for a Backup Connection



The Cisco 880 Series lets small businesses improve business resiliency with a built-in 3G or ISDN backup network connection. If the primary network connection should fail, the backup connection will ensure that network connectivity is uninterrupted. The 3G allows you to provide data access in areas where wireless LAN access is not available.

The Cisco 880 Series provides:

- **Increased performance to run concurrent services:** High performance lets you take advantage of broadband network speeds while running highly secure, concurrent data, voice, video, and wireless services.
- **Enhanced security to protect business data:** A built-in stateful inspection firewall protects the network perimeter with advanced security. High-speed IP security (IPSec) Triple Data Encryption Standard (3DES) and Advanced Encryption Standard (AES) encryption help ensure data privacy over the Internet. Sophisticated IPS helps detect and mitigate security threats. Built-in security solution includes subscription-based content filtering that lets you control content based on category to protect against adware, malware, and spyware; help employees stay productive; and improve use of company resources.

- **Redundant WAN links for business continuity:** The Cisco 880 Series helps ensure that your network stays operational with dual WAN links. In the event of an outage in the primary link, the backup link is activated to keep the network available and your business operating.
- **4-port switch to connect office devices:** The 4-port 10/100-Mbps managed switch allows multiple devices to be connected in a small office. An optional external PoE adapter lets you power IP phones and external access points directly over the Ethernet connection, without an external power supply, simplifying deployment and eliminating the need to install separate power supplies for connected endpoints. VLAN support lets you securely segment your network resources for stronger security and management.
- **Optional 802.11g/n wireless access point:** An optional built-in access point supports 802.11n features and is backward compatible with the 802.11b and g standards. For increased wireless throughput and range, the router includes multiple-input, multiple-output (MIMO) antennas for reliable coverage in a small office. Wireless connectivity is protected with Wi-Fi Protected Access (WPA); authentication with IEEE 802.1X with Cisco LEAP and Protected Extensible Authentication Protocol (PEAP); and encryption with WPA Temporal Key Integrity Protocol (TKIP).
- **Simplified deployment and management:** You can easily deploy and centrally manage Cisco 880 Series routers with Cisco Configuration Professional. Using smart wizards and task-based tutorials, this intuitive GUI-based application lets you quickly and easily deploy, configure, and monitor a Cisco access router, without requiring knowledge of command-line interface (CLI). Cisco Configuration Professional reduces the time your staff must devote to network deployment and configuration. It is available for download free of charge at <http://www.cisco.com/go/ccp>.
- **Unified wireless management:** Provides automated and simplified configuration and management of wireless access points without manual intervention. Unified hybrid remote-edge access point (HREAP) lets you deliver wireless LAN (WLAN) services to remote and branch offices through a wide area network link (WAN). You can centrally configure and control unified WLAN services without deploying a WLAN controller at each location.

Product Specifications

Tables 2 through 4 list the software and hardware features of the Cisco 880 Series routers.


Table 2. Cisco IOS Software Features on Cisco 880 Series: Advanced Security Feature Set (Default)

| Feature | Description |
|------------------------------------|---|
| IP and IP services features | <ul style="list-style-type: none"> • Routing Information Protocol (RIPv1 and RIPv2) • Generic routing encapsulation (GRE)/MGRE • Cisco Express Forwarding • 802.1d Spanning Tree Protocol • Layer 2 Tunneling Protocol (L2TP) • Layer 2 Tunneling Protocol Version 3 (L2TPv3) • Network Address Translation (NAT) • Dynamic Host Configuration Protocol (DHCP) server/relay/client • Dynamic DNS • DNS proxy • DNS spoofing • Access control lists (ACLs) |

| | |
|---|--|
| DSL and ATM features (DSL models only) | <ul style="list-style-type: none"> • ATM Variable Bit Rate/real-time (VBR-rt) • ATM Unspecified Bit Rate (UBR), Constant Bit Rate (CBR), and Variable Bit Rate/non-real-time (VBR-nrt) • ATM Operation, Administration, and Maintenance (OAM) support for F5 continuity check; segment and end-to-end loopback; and Interim Local Management Interface (ILMI) support • Dying Gasp support • TX ring adjustment • Virtual circuit (VC) bundling • Per-VC queuing • Per-VC traffic shaping • 20 ATM virtual circuits • RFC 1483/2684 • Point-to-Point Protocol over ATM (PPPoA) • PPP over Ethernet (PPPoE) |
| Switch features | <ul style="list-style-type: none"> • Auto Media Device In/Media Device Crossover (MDI/MDX) • 8 802.1Q VLANs • MAC filtering • 2-port 802.3af and Cisco-compliant PoE • Switched Port Analyzer (SPAN) • Storm Control • Smartports |
| Security features | <p>Secure connectivity:</p> <ul style="list-style-type: none"> • Secure Sockets Layer (SSL) VPN for highly secure remote access • Hardware-accelerated DES, 3DES, AES128, AES192, AES256 • Public Key Infrastructure (PKI) support • 20 IPsec tunnels • Cisco Easy VPN Client and Server • Network Address Translation (NAT) transparency <p>Zone-based policy firewall:</p> <ul style="list-style-type: none"> • Virtual Route Forwarding (VRF)-aware stateful-inspection routing firewall • Stateful-inspection transparent firewall • Advanced application inspection and control <p>Secure HTTP (HTTPS), FTP, and Telnet authentication proxy</p> |
| QoS features | <ul style="list-style-type: none"> • Weighted Fair Queuing (WFQ) • Class-Based WFQ (CBWFQ) • Policy-based routing (PBR) • Class-based QoS MIB • Class of service (CoS) to differentiated services code point (DSCP) mapping |
| Management features | <ul style="list-style-type: none"> • Cisco Configuration Professional • Cisco Configuration Express • Cisco Configuration Engine support • Cisco AutoInstall • IP service-level agreement (SLA) • Embedded Event Manager (EEM) • CiscoWorks • Cisco Security Manager • Telnet, Simple Network Management Protocol (SNMP v3), Secure Shell (SSH), command-line interface (CLI), and HTTP management • RADIUS and TACACS+ • Out-of-band management with ISDN S/T port or external modem through virtual auxiliary port • Cisco Wireless Control System (WCS) for management of unified access points in models supporting WLAN |
| High-availability features | <ul style="list-style-type: none"> • Virtual Router Redundancy Protocol (VRRP) (RFC 2338) • Hot Standby Router Protocol (HSRP) • Multigroup HSRP (MHSRP) • Dial backup with external modem through virtual auxiliary port • Dial backup with ISDN S/T port (DSL models only) • 3G backup |

| | |
|------------------------------------|----|
| Number of recommended users | 20 |
|------------------------------------|----|

Table 3. Cisco IOS Software Features on Cisco 880 Series: WLAN Features (Available with Wireless Option)

| Feature | Description |
|--|--|
| WLAN hardware | <ul style="list-style-type: none"> • IEEE 802.11n draft 2.0 standard-based access point with 802.11b/g compatibility • Automatic rate selection for 802.11g/n • Captive omnidirectional 2-dBi gain dipole antennas • 2x3 MIMO radio operation • Wi-Fi 802.11n draft 2.0 certified |
| WLAN software | <ul style="list-style-type: none"> • Autonomous or unified access point • WCS support for monitoring of autonomous mode access points • Maximize throughput or maximize range option • Software-configurable transmit power • Radio roles include access point, root bridge, nonroot bridge, and workgroup bridge • Wireless Multimedia (WMM) certification <ul style="list-style-type: none"> ◦ Traffic Specification (TSPEC) Call Admission Control to ensure voice quality ◦ Unscheduled Automatic Power Save Delivery (UAPSD) to reduce latency |
| WLAN security features | <ul style="list-style-type: none"> • 802.11i • Wi-Fi Protected Access (WPA) and AES (WPA2) • EAP authentication: Cisco LEAP, PEAP, EAP-TLS, EAP-FAST, EAP-SIM, EAP-MD5, EAP-TTLS • Static and dynamic Wired Equivalent Privacy (WEP) • TKIP/Simple Security Network (SSN) encryption • MAC authentication/filter • User database for survivable local authentication using LEAP and EAP-FAST • Configurable limit to the number of wireless clients • Configurable RADIUS accounting for wireless clients • PSK (Pre-Shared Keys) (WPA-SOHO) |
| Certifications |  |
| Service set identifiers (SSIDs) | 16 |
| Wireless VLANs | 8 |
| Encrypted wireless VLANs | 8 |
| Multiple basic SSIDs (MBSSIDs) | 16 |

Cisco IOS Software Advanced IP Services Feature Set (Optional Software Upgrade)

The Advanced IP Services software image has all the features of the Advanced Security software image, with the addition of the features listed in Table 4.

Table 4. Cisco IOS Software Features on Cisco 880 Series: Advanced IP Services Feature Set (Optional Software Upgrade)

| Feature | Description |
|------------------------------------|---|
| IP and IP services features | <ul style="list-style-type: none"> • Open Shortest Path First (OSPF) • Border Gateway Protocol (BGP) • Enhanced Interior Gateway Routing Protocol (EIGRP) • VRF Lite • Next Hop Resolution Protocol (NHRP) • Bidirectional forwarding detection (BFD) • Web Cache Communications Protocol (WCCP) |

| | |
|--------------------------------------|--|
| Switch features | <ul style="list-style-type: none"> • Dynamic and static port security • Secure MAC address • Internet Group Management Protocol (IGMP) v3 snooping • 802.1x |
| Security features | <p>Secure connectivity:</p> <ul style="list-style-type: none"> • DMVPN • Tunnelless Group Encrypted Transport VPN • IPSec stateful failover • VRF-aware IPSec • SSL VPN • IPSec over IPv6 • Adaptive Control Technology • SIP Application Layer Gateway <p>Cisco IOS Firewall:</p> <ul style="list-style-type: none"> • Firewall stateful failover • VRF-aware firewall <p>Content filtering:</p> <ul style="list-style-type: none"> • Subscription-based content filtering • Websense and SmartFilter using WCCP • Cisco IOS Software black and white lists <p>Integrated threat control:</p> <ul style="list-style-type: none"> • IPS • Control plane policing • Flexible packet matching • Network foundation protection |
| QoS features | <ul style="list-style-type: none"> • Low-Latency Queuing (LLQ) • Class-Based Traffic Shaping (CBTS) • Class-Based Traffic Policing (CBTP) • Class-Based Weighted Random Early Detection (CBWRED) • Network-Based Application Recognition (NBAR) • Link Fragmentation and Interleaving (LFI) • Resource Reservation Protocol (RSVP) • RTP header compression (cRTP) • Differentiated Services (DiffServ) • QoS preclassify and prefragmentation • Hierarchical QoS (HQoS) |
| Metro Ethernet features | <ul style="list-style-type: none"> • Ethernet Operations, Administration, and Maintenance (Ethernet OAM) • Ethernet Local Management Interface (Ethernet LMI) • HQoS |
| IPv6 features | <ul style="list-style-type: none"> • IPv6 addressing architecture • IPv6 name resolution • IPv6 statistics • IPv6 translation-transport packets between IPv6-only and IPv4-only endpoints (NAT-PT) • Internet Control Message Protocol (ICMP) v6 • IPv6 DHCP |
| IPv6 multicast features | <ul style="list-style-type: none"> • Protocol Independent Multicast (PIM) Sparse mode • PIM Sparse-Dense mode • Auto Route Processing (Auto-RP) |
| Unified access point features | <ul style="list-style-type: none"> • Supported by wireless LAN controller and WCS • Configurable local or central switching for HREAP mode • Radio management via WCS • Seamless roaming with mobility groups |


System Specifications

Table 5 lists the system specifications for the Cisco 880 Series routers.

Table 5. Cisco 880 Series System Specifications

| Feature | Specification |
|---|--|
| Default DRAM | 256 MB on Cisco 880 Series data models |
| Maximum DRAM | 768 MB |
| Default and maximum flash memory | 128 MB on Cisco 880 Series data models |
| WAN | <ul style="list-style-type: none"> • Fast Ethernet • G.SHDSL (2- and 4-wire support) with ISDN backup • Fast Ethernet and 3G WAN for Code Division Multiple Access (CDMA) and Global System for Mobile Communications / Universal Mobile Telecommunications Service (GSM/UMTS) • (CDMA: EVDO rev A / EVDO rel 0 / 1xRTT • GSM/UMTS: HSDPA / UMTS / EDGE / GPRS) |
| LAN switch | Managed 4-port 10/100BASE-T with autosensing MDI/MDX for autocrossover |
| 802.11g/n access point based on IEEE 802.11n draft 2.0 standard | Optional on all models |
| Console/auxiliary port | RJ-45 |
| 1 USB 1.1 port for advanced security features, such as security tokens, or USB flash | <ul style="list-style-type: none"> • 1 USB 1.1 port on Cisco 881 and Cisco 888 • USB devices supported: <ul style="list-style-type: none"> ◦ USB eTokens ◦ USB flash • USB 1.1 port cannot be used for connecting external devices other than those specified at: http://www.cisco.com/en/US/partner/prod/collateral/modules/ps6247/product_data_sheet0900aecd80232473.html |
| ISDN Basic Rate Interface (BRI) S/T | <ul style="list-style-type: none"> • Available on Cisco 888 for out-of-band management and dial backup or primary • Supports point-to-multipoint configurations |
| 3G express card modem³ | Available on: <ul style="list-style-type: none"> • Cisco 881G for out-of-band management and backup or primary • Cisco 888G for out-of-band management and backup or primary |
| External power supply | Universal 100 to 240 VAC input; 60W, 12 VDC output |
| Inline PoE | Optional internal adapter for inline PoE on 2 switch ports for IP phones or external wireless access points; 802.3af compliant and Cisco PoE compliant |
| G.SHDSL specifications | <ul style="list-style-type: none"> • Conexant chipset • 2-wire and 4-wire modes supported • Annex A and Annex B are supported starting with Cisco IOS Software Release 12.4(15)XZ • Support for wetting current (Section A.5.3.3 of G.991.2) • Support for Dying Gasp; uses power status bit (Section 7.1.2.5.3 of G.991.2) for signaling • Symmetrical WAN speeds of 2.304 Mbps per pair |
| Wireless specifications | 2.4 GHz |
| Data rates supported | <ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 6, 9, 11 Mbps • 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps, m0-m15 |
| Maximum transmit power (2-channel aggregate) | <p>Note: Maximum power setting subject to changes by channel and by region, depending on regulations</p> <ul style="list-style-type: none"> • 802.11b: 20 dBm • 802.11g: 17 dBm • 802.11n: 16 dBm |

³ Available in the second half of calendar year 2008.

| 3G specifications | |
|---------------------------------------|---|
| Frequency bands | <ul style="list-style-type: none"> • 850/1900 MHz for CDMA 2000 rev A/ rel 0 and CDMA 1xRTT • 850/1900/2100 MHz for HSPA/UMTS/EDGE/GPRS • 900/1800 MHz for EDGE/GPRS |
| Physical dimensions and weight | <p>Product dimensions:</p> <p>Nonwireless models:</p> <ul style="list-style-type: none"> • W x D x H = 12.8" x 9.8" x 1.9" (325mm x 249mm x 48mm) (includes rubber feet) • W x D x H = 12.8" x 9.8" x 1.75" (325mm x 249mm x 44mm) (without rubber feet) <p>Wireless models:</p> <ul style="list-style-type: none"> • W x D x H = 12.8" x 10.4" x 1.9" (325mm x 264mm x 48mm) (includes rubber feet) • W x D x H = 12.8" x 10.4" x 1.75" (325mm x 264mm x 44mm) (without rubber feet; excludes antennas) • Weight: 5.5 lb (2.5 kg) maximum |
| Power | <p>Product power specifications:</p> <ul style="list-style-type: none"> • AC input voltage: 100 to 240 VAC • Frequency: 50 to 60 Hz • Maximum output power: 60W • Output voltages: 12 VDC <p>Optional internal PoE with external adapter:</p> <ul style="list-style-type: none"> • Maximum output power: 80W • Output voltage: External 48 VDC |
| Approvals and compliance | <ul style="list-style-type: none"> • IEC 60950-1:2005, second edition, with all country deviations • AS/NZS 60950-1:2003, first edition • CAN/CSA 22.2 No. 60950-1-05, second edition • UL 60950-1, second edition, 2005 • EN55024 • Industry Canada CS-03 • TIA-968-A, addendum 1, 2, 3, 4, 5 • EMI • VCCI Class II • IEC 1000-3-2 • UNI 3.1/4.0 PVC • ITU G.991.2 G.SHDSL • California Energy Commission (CEC) compliant <p>Australia and New Zealand:</p> <ul style="list-style-type: none"> • Australia AS/ACIF S031: 2001 • Australia AS/ACIF S043.1: 2003 • Australia AS/ACIF S043.2: 2006 • New Zealand PTC220: 2003 <p>The following are supported on teleworker models:</p> <ul style="list-style-type: none"> • AS/NRZ 3548:1992 Class B • CFR 47 Part 15 Class B • EN60555-2 Class B • EN55022 Class B • ICES-003, Issue 2, Class B, April 1997S |
| Certifications |  |
| Environmental operating range | <ul style="list-style-type: none"> • Nonoperating temperature: -4 to 149°F (-20 to 65°C) • Nonoperating humidity: 5 to 95 percent relative humidity (noncondensing) • Nonoperating altitude: 0 to 15,000 ft (0 to 4570m) • Operating temperature: 32 to 104°F (0 to 40°C) • Operating humidity: 10 to 85%, relative humidity (noncondensing) • Operating altitude: 0 to 10,000 ft (0 to 3000m) |

DSLAM Interoperability

Table 6 lists the Cisco supported Digital Subscriber Line Access Multiplexers (DSLAMs) for the Cisco 888 Series.

Table 6. G.SHDSL DSLAM Interoperability

| DSLAM (Chipset) | ECI Hi-Focus SAM 480 (Infineon) | | Alcatel ASAM7300 (Conexant) | | Lucent Stinger (Conexant) | | Siemens Hix-5300 (Infineon) | |
|-----------------|---------------------------------|--------|-----------------------------|--------|---------------------------|--------|-----------------------------|--------|
| | 2-Wire | 4-Wire | 2-Wire | 4-Wire | 2-Wire | 4-Wire | 2-Wire | 4-Wire |
| 878 | X | X | X | X | X | X | X | X |

Ordering Information

Table 7 lists ordering information for the Cisco 880 Series.

Table 7. Ordering Information

| Part Number | Product Name |
|---|--|
| Ethernet | |
| CISCO881-K9 | Cisco 881 Ethernet Security Router |
| CISCO881W-GN-A-K9 | Cisco 881 Ethernet Security Router 802.11n FCC compliant |
| CISCO881W-GN-E-K9 | Cisco 881 Ethernet Security Router 802.11n ETSI compliant |
| CISCO881W-GN-P-K9 | Cisco 881 Ethernet Security Router 802.11n Japan compliant |
| G.SHDSL | |
| CISCO888-K9 | Cisco 888 G.SHDSL Router with ISDN backup |
| CISCO888W-GN-A-K9 | Cisco 888 G.SHDSL Wireless Router with ISDN backup; 802.11n FCC compliant |
| CISCO888W-GN-E-K9 | Cisco 888 G.SHDSL Wireless Router with ISDN backup; 802.11n ETSI compliant |
| Teleworker | |
| CISCO881-K9 | Cisco 881 Ethernet Security Router |
| CISCO881W-GN-A-K9 | Cisco 881 Ethernet Security Router 802.11n FCC compliant |
| CISCO881W-GN-E-K9 | Cisco 881 Ethernet Security Router 802.11n ETSI compliant |
| CISCO881W-GN-P-K9 | Cisco 881 Ethernet Security Router 802.11n Japan compliant |
| POE | |
| 800-IL-PM=2 | 2-port 802.3af capable inline power module for Cisco 880 Series routers |
| DRAM | |
| MEM8XX-256U512D | 256-MB DRAM upgrade to 512 MB for Cisco 880 Series routers |
| MEM8XX-256U768D | 512-MB DRAM upgrade to 768 MB for Cisco 880 Series routers |
| Router Software | |
| C880data-universalk9-mz | Universal image for Cisco 880 Series data models |
| Access Point Software | |
| ap801-k9w7-tar | Autonomous software image for ap801 |
| ap801-rcvk9w8-tar | LWAPP recovery image for ap801 |
| Software License for Cisco 880 Data Models | |
| SL-880-ADSEC (default) | Cisco 880 Advanced Security Image Feature License |
| SL-880-AIS (upgrade option) | Cisco 880 Advanced IP Services Image Feature License |
| Security Services | |
| Content Filtering | |
| SL-CNFIL-88x-1Y | 1-year subscription to content filtering for Cisco 881/888 – URL/phishing |
| SL-CNFIL-88x-2Y | 2-year subscription to content filtering for Cisco 881/888 – URL/phishing |
| SL-CNFIL-88x-3Y | 3-year subscription to content filtering for Cisco 881/888 – URL/phishing |

| | |
|------------------------|--|
| SSL | |
| FL-WEBVPN-10-K9 | Feature license SSL VPN for up to 10 users (incremental) |

Cisco License Manager is a secure client/server-based application that can be used to manage Cisco IOS Software activation and licenses. For more information about Cisco License Manager, visit <http://www.cisco.com/go/clm>.

Table 8 specifies the Cisco IOS Software images for the Cisco 880 Series models.

Table 8. Cisco IOS Software Images for the Cisco 880 Series Models

| Series | Models | Image | Default Feature License | First Cisco IOS Software Release |
|--------------------------------|--|-------------------------|-------------------------|----------------------------------|
| Router Software | | | | |
| Cisco 880 Series models | Cisco 881, Cisco 888, Cisco 881G, Cisco 888G | C880data-universalk9-mz | SL-880-ADSEC | 12.4(15)XZ; S880D-UK9-12415XZ |
| Access Point Software | | | | |
| ap801 | Cisco 881, Cisco 888, Cisco 881G, Cisco 888G | ap801-k9w7-tar | – | 12.4(10b)JA2 |

Cisco Services

Leading-edge technology deserves leading-edge support. Cisco offers a wide range of services programs to accelerate customer success. These innovative services programs are delivered through a unique combination of people, processes, tools, and partners. Cisco Services help you protect your network investment, optimize network operations, and prepare your network for new applications to extend network intelligence and the power of your business.

Cisco SMARTnet[®] Service technical support for the Cisco 880 Series is available on a one-time or annual contract basis. Support options range from help-desk assistance to proactive, onsite consultation. All support contracts include:

- Major Cisco IOS Software updates in protocol, security, bandwidth, and feature improvements
- Full access rights to Cisco.com technical libraries for technical assistance, electronic commerce, and product information
- 24-hour-a-day access to Cisco's large, dedicated technical support staff

For more information about Cisco services, refer to <http://www.cisco.com/go/services>.

Secure, Flexible Business Connectivity

More than ever, your business depends on the network to deliver the fast, responsive service that customers demand. To support your most important business operations and help your employees communicate and work together more effectively, you need a network that is secure, powerful, and flexible.

Cisco[®] 880 Series Integrated Services Routers lets your employees reach the people and information they need, regardless of where they are working. This family of routers delivers Internet access, security, and wireless services over the broadband connection that best meets your needs. It combines a variety of features in a single, secure device that is simple for small businesses to use and manage. Built for growing businesses, Cisco 880 Series Integrated Services Routers let you connect your company now and keep pace as your needs change in the future.

For More Information

For more information regarding Cisco 880 Series Integrated Services Routers and options, contact your Cisco representative or go to <http://www.cisco.com/go/800>.

To upgrade the Cisco IOS Software for the Cisco 880 Series Integrated Services Routers, visit the [Cisco Software Center](#).

For more information and a free download of Cisco Configuration Professional, visit <http://www.cisco.com/go/ccp>.



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