Cisco 890 Series Integrated Services Routers – Data Sheet

Cisco® 890 Series Integrated Services Routers (ISRs) combine Internet access, comprehensive security, and wireless services in a single high-performance device that is easy to deploy and manage. They are well suited for deployment as Customer Premises Equipment (CPE) in enterprise small branch offices and in service provider managed-service environments.

Product Overview

Cisco 890 Series ISRs deliver integrated security and threat defense, protecting networks from both known and new Internet vulnerabilities and attacks. These powerful, fixed-configuration routers provide secure broadband, Metro Ethernet, and Wireless LAN (WLAN) connectivity. Service providers offering managed Ethernet WAN services can deploy them in customer locations as CPE. You get centralized and remote management capabilities through web-based tools and Cisco IOS® Software for full visibility and control of network configurations at the remote site.

The 890 routers simplify the deployment of Ethernet WAN services, with end-to-end Operations, Administration, and Maintenance (OA&M), Service-Level Agreement (SLA) monitoring and verification, and configuration management.

Cisco 890 Series ISRs come with an 8-port managed switch, providing LAN ports to connect multiple devices. An optional Power-over-Ethernet (PoE) capability can also supply power to IP phones and other devices. Eleven Cisco 890 Series models are available: Figure 1 shows the front and back of one, the Cisco 892FSP.

Figure 1.   Cisco 892FSP ISR, Front and Back

Features and Benefits

Table 1 describes some of the business needs enterprises have in branch offices and other edge networking locations and how the 890 ISR fulfills those requirements.

Table 1.   **How the 890 ISR Addresses Edge Networking Challenges**

Business Need	890 ISR Feature(s)/Description
High availability and business continuity	● Redundant WAN connections for failover protection and load balancing ● Dynamic failover protocols such as Virtual Router Redundancy Protocol (VRRP; RFC 2338), Hot Standby Router Protocol (HSRP), and Multigroup HSRP (MHSRP) ● Dial backup with external modem through a virtual auxiliary port
Consistent, high	● The router can run multiple services simultaneously with no performance

application performance levels	degradation
Risk mitigation with multilevel security	● Network perimeter security with integrated application inspection firewall ● Data privacy through high-speed IP Security (IPsec) Triple Data Encryption Standard (3DES) and Advanced Encryption Standard (AES) encryption ● Enforced security policy with intrusion prevention ● Security hardware acceleration ● FlexVPN ● Next-generation encryption for secure network communications systems, reliable for the next decade ● Cisco ISR Web Security with Cisco ScanSafe, designed to prevent zero-day malware from reaching corporate networks
Feature consolidation for real estate, capital expenditures (CapEx), and management savings	● Supports LAN connections, both Ethernet and Wi-Fi, in one appliance. Contains an integrated 802.11n WLAN access point that supports both autonomous and unified modes, as well as an 8-port LAN switch. Management of both the wired and wireless environments is integrated
Unified control of wired and wireless networks from a common console for streamlined operations	● Simplifies and centralizes configuration and management of wireless and wireline devices. Supports WLAN services without requiring a wireless LAN controller
Remote configuration and management to keep local IT staff lean	● Supports separate console, auxiliary, and USB ports ● Provides one USB 2.0 flash memory

Platform Support

Table 2 describes the interfaces, Wi-Fi options, and integrated capabilities supported by each of the Cisco 890 Series ISR models.

Table 2.   Platform Support for 890 Series ISRs

Model	WAN Interfaces	LAN Interfaces	802.11a/g/n Option	Integrated USB 2.0/AUX/Console	Integrated Dial Backup
Cisco 892FSP	1-port GE or 1-port SFP 1-port GE	8-port 10-/100-/1000-Mbps managed switch	No	Yes	No
Cisco 896VA	1-port GE or 1-port SFP VDSL/ADSL2+ Annex B	8-port 10-/100-/1000-Mbps managed switch (4-ports PoE capable with 125W power supply adapter)	No	Yes	ISDN

Model	WAN Interfaces	LAN Interfaces	802.11a/g/n Option	Integrated USB 2.0/AUX/Console	Integrated Dial Backup
Cisco 897VA	1-port GE or 1-port SFP VDSL/ADSL2+ Annex A/M	8-port 10-/100-/1000-Mbps managed switch (4-ports PoE capable with 125W power supply adapter)	Yes Cisco CleanAir® technology	Yes	ISDN (only on Cisco 897VA-K9)
Cisco 897VAB	1-port GE or 1-port SFP VDSL/ADSL2+ Annex A with Bonding	8-port 10-/100-/1000-Mbps managed switch (4-ports PoE capable with 125W power supply adapter)	No	Yes	No
Cisco 898EA	1-port GE or 1-port SFP 4 pair Ethernet in the first mile (EFM)	8-port 10-/100-/1000-Mbps managed switch (4-ports PoE capable with 125W power supply adapter)	No	Yes	No
Cisco 891F	1-port GE or 1-port SFP 1-port FE	8-port 10-/100-/1000-Mbps managed switch (4-ports PoE capable with 125W power supply adapter)	Yes Cisco CleanAir technology	Yes	V.92 analog modem ISDN BRI
Cisco 891-24X	2-port GE or 2-port SFP	24-port 10-/100-/1000-Mbps managed switch (8-ports PoE capable with integrated power supply)	No	Yes	No

Cisco ONE Software

Cisco ONE™ Software offers a valuable and flexible way to buy software for the WAN, access, and data center domains. At each stage in the product lifecycle, Cisco ONE Software helps make buying, managing, and upgrading your network and infrastructure software easier. Cisco ONE Software provides:

● Flexible licensing models to smoothly distribute customers' software spending over time

● Investment protection for software purchases through software services–enabled license portability

● Access to updates, upgrades, and new technology from Cisco through Cisco℠ Software Support Services (SWSS)

Cisco ONE for WAN gives organizations broad capabilities for branch offices and the enterprise edge. Cisco ONE Foundation for WAN connects and secures your branch office while optimizing for cost. Cisco ONE WAN Collaboration integrates voice and video into your branch office and network edge.

Product Specifications

Table 3 shows Cisco IOS Software features, WLAN features, and general system specifications for the 890 Series ISRs.

Table 3.   890 Series IOS Software Features, WLAN Features, and System Specifications

Feature	Specification	
Cisco IOS Software: Advanced IP Features Set (Default)		
IP and IP services	● Routing Information Protocol Versions 1 and 2 (RIPv1 and RIPv2) ● Generic Routing Encapsulation (GRE) and Multipoint GRE (MGRE) ● Cisco Express Forwarding ● Standard 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, and client ● Dynamic Domain Name System (DNS) ● DNS Proxy ● DNS Spoofing ● Access control Lists (ACLs) ● IPv4 and IPv6 Multicast ● Open Shortest Path First (OSPF) ● Border Gateway Protocol (BGP) ● Performance Routing (PfR) ● Enhanced Interior Gateway Routing Protocol (EIGRP) ● Virtual Route Forwarding (VRF) Lite ● Next Hop Resolution Protocol (NHRP) ● Bidirectional Forwarding Detection (BFD) ● Web Cache Communication Protocol (WCCP)	
xDSL	● True Multimode VDSL2 and ADSL2+ over Annex A, B, J, and M including traditional G.DMT and T1.413 ● World-class interoperability with industry-standard DSL access multiplexer (DSLAM) chipsets ● Highest field reliability with Impulse Noise Protection over REIN/SHINE, Extended INP-Delay, G.INP, Physical Layer Retransmission, SRA, and Bitswap ● VDSL2 Persistent Storage Device (PSD) profiles up to 17a/b with support for Spectral Shaping ● VDSL2 Vectoring to offer blazing fiber speeds over copper ● Support for 4-pair multimode G.SHDSL; that is, ATM and EFM ● Remote management with TR069 and CWMP ● Investment protection with GE and SFP for future fiber that could replace xDSL deployment	
Switch features	● Auto Media Device In/Media Device Cross Over (MDI-MDX) ● 25 802.1QVLANs ● MAC filtering ● Four-port 802.3af and Cisco compliant PoE ● Switched Port Analyzer (SPAN) ● Storm Control ● Smart ports ● Secure MAC address ● Internet Group Management Protocol Version 3 (IGMPv3) snooping ● 802.1x	

Feature	Specification	

Security features	Secure connectivity:
	● Secure Sockets Layer (SSL) VPN for secure remote access
	● Hardware-accelerated DES, 3DES, AES 128, AES 192, and AES 256
	● Public-Key-Infrastructure (PKI) support
	● Fifty IPsec tunnels
	● Cisco Easy VPN Client and Server
	● NAT transparency
	● Dynamic Multipoint VPN (DMVPN)
	● Tunnel-less Group Encrypted Transport VPN
	● VRF-aware IPsec
	● IPsec over IPv6
	● Adaptive control technology
	● Session Initiation Protocol (SIP) application-layer gateway
	● Cisco IOS Firewall:
	  ◦ Zone-Based Policy Firewall
	  ◦ VRF-aware stateful inspection routing firewall
	  ◦ Stateful inspection transparent firewall
	● Advanced application inspection and control
	● Secure HTTP (HTTPS), FTP, and Telnet Authentication Proxy
	● Dynamic and static port security
	● Firewall stateful failover
	● VRF-aware firewall
	● Cisco ScanSafe Connector
	● Cisco IOS Software blocked and allowed lists
	● Integrated threat control:
	  ◦ Intrusion Prevention System (IPS)
	● Control Plane Policing
	● Flexible Packet Matching
	● Network foundation protection	

Quality of Service (QoS)	● Low-Latency Queuing (LLQ) ● Weighted Fair Queuing (WFQ) ● Class-Based WFQ (CBWFQ) ● Class-Based Traffic Shaping (CBTS) ● Class-Based Traffic Policing (CBTP) ● Policy-Based Routing (PBR) ● Class-Based QoS MIB ● Class of Service (CoS)-to-Differentiated Services Code Point (DSCP) mapping ● Class-Based Weighted Random Early Detection (CBWRED) ● Network-Based Application Recognition (NBAR) ● Link Fragmentation and Interleaving (LFI) ● Resource Reservation Protocol (RSVP) ● Real-Time Transport Protocol (RTP) header compression (cRTP)	
Management	● Cisco Configuration Professional	

Feature	Specification	
	● Cisco Configuration Express ● Cisco Configuration Engine support ● Cisco AutoInstall ● Cisco IP Service-Level Agreement (IP SLA) ● Cisco IOS Embedded Event Manager (EEM) ● CiscoWorks ● Cisco Security Manager ● Telnet, Simple Network Management Protocol Version 3 (SNMPv3), Secure Shell (SSH) Protocol, Command-Line Interface (CLI), and HTTP management ● RADIUS and TACACS+ ● Out-of-band management with ISDN S/T port or external modem through a virtual auxiliary port on models supporting those interfaces; refer to Table 2 for details ● Cisco Wireless Control System (WCS) for management of unified access points in models supporting WLAN; on models supporting WLAN, refer to Table 2 for details	
High availability	● Virtual Router Redundancy Protocol (VRRP) (RFC 2338) ● HSRP ● MHSRP ● Dial backup with external modem through virtual auxiliary port ● Dial backup with ISDN S/T or V.92 Analog modem port	
Metro Ethernet	● Ethernet OA&M ● Ethernet Local Management Interface (E-LMI) ● IP SLA for Ethernet	
IPv6	● IPv6 addressing architecture ● IPv6 name resolution ● IPv6 statistics ● IPv6 translation: Transport packets between IPv6-only and IPv4-only endpoints (NAT-Protocol Translation) ● Internet Control Message Protocol Version 6 (ICMPv6) ● IPv6 DHCP ● OSPFv3 ● BGP4+ ● IPv6 Path Maximum Transmission Unit (PMTU) ● IPv6 Neighbor Discovery ● IPv6 Stateless Address Auto Configuration (SLAAC) ● IPv6 Multicast Routing	

Unified WLAN	● Unified access-point features:	

Feature	Specification	
management	● Supported by wireless LAN controller and Cisco WCS ● Configurable local or central switching for Hybrid Remote Edge Access Point (HREAP) mode ● Radio management through Cisco WCS ● Transparent roaming with mobility groups	
Application visibility and control	● NBAR2 ● Flexible NetFlow (FNF) ● Performance Agent	
Number of recommended users	50	
WLAN Features (Available with Wireless Option)		
Standard 802.11 a/g/n access point	● Optional on Cisco 890 Series models	
WLAN hardware	● Support for Cisco CleanAir technology on Cisco 897 and 891F ● Automatic rate selection for 802.11a/g/n ● Noncaptive RPTNC omnidirectional dipole antennae; 2-dBi gain @ 2.4 GHz, 5-dBi gain @ 5 GHz ● 2 x 3 Multiple Input, Multiple Output (MIMO) radio operation ● Wi-Fi 802.11n Draft v2.0 certified	
WLAN software features	● Autonomous or unified access point ● Cisco WCS support for monitoring of autonomous-mode access points ● Option to maximize throughput or maximize range ● Software-configurable transmit power ● Radio roles, including access point, root bridge, nonroot bridge, and workgroup bridge ● Wi-Fi Multimedia (WMM) certification ● Traffic specifications (TSPEC) Call Admission Control (CAC) to ensure voice quality is maintained ● Unscheduled Automatic Power Save Delivery (UPSD) to reduce latency	
	● Standard 802.11i	

Feature	Specification	
WLAN security features	• Wi-Fi Protected Access (WPA) and AES (WPA2) • EAP authentication: Cisco Light Extensible Authentication Protocol (LEAP), Protected Extensible Authentication Protocol (PEAP), Extensible Authentication Protocol Transport Layer Security (EAP TLS), Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST), Extensible Authentication Protocol-Subscriber Information Module (EAP-SIM), Extensible Authentication Protocol-Message Digest Algorithm 5 (EAP-MD5), and Extensible Authentication Protocol-Tunneled TLS (EAP-TTLS) • Static and dynamic Wired Equivalent Privacy (WEP) • Temporal Key Integrity Protocol/Simple Security Network (TKIP/SSN) encryption • MAC authentication and 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 • Preshared keys (PSKs) (WPA-small office or home office [WPA-SOHO])	
Certifications	 **Note:** Due to new FCC WiFi June 2016 regulation (FCC rules for part 15.409), the WLAN radio used in the ISR's (specifically C819 –A WiFi Domain with AP802 dual 802.11 radio) Cisco will be issuing a new grant for the 5GHz dual 802.11n radio. The specific reason for the change is due to the inability of the radio to detect the various radar pulses (DFS function) over the entire bandwidth of the channels in the 5250-5350 and the 5500-5700 A radio channel bands (which will be disabled). As a consequence the radio will now operate from 5150-5250 and 5745-5850 A radio bands. This will provide a total of nine channels in the 5GHz range.	
Service Set Identifiers (SSIDs) and Multiple Broadcast SSIDs	• 16	
Wireless VLANs	• 14 (encrypted and nonencrypted VLANs)	
Default and maximum DRAM	• Default 512MB • Up to 1 GB on Cisco 892FSP, 896VA, 897VA, 897VAB, 898EA, 891F, and 891-24X data models; upgrade option available	
Default and maximum flash memory	• 256 on all Cisco 890 ISR models; not upgradable	
WAN	• Refer to Table 2 for details	
LAN switch	• Refer to Table 2 for details	

Feature	Specification
Separate console and auxiliary ports	● RJ-45
USB 2.0	● One USB 2.0 port available on Cisco 892FSP, 896VA, 897VA, 897VAB, 898EA, 891F, and 891-24X ● USB devices supported: ○ USB flash memory

Feature	Specification	
	Note: USB 2.0 ports cannot be used for connecting external devices other than those specified at: https://www.cisco.com/en/US/prod/collateral/modules/ps6247/product_data_sheet0900aecd80232473.html.	
ISDN BRI S/T	● Refer to Table 2 for details	
Inline PoE	● Optional internal adapter for inline PoE on 4 switch ports for IP phones or external wireless access points; 802.3af-compliant and Cisco PoE-compliant ● No PoE support on Cisco 892FSP	
Wireless specifications	● 2.4 and 5 GHz	
Data rates supported	● 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps ● 802.11b: 1, 2, 5.5, 6, 9, and 11 Mbps ● 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps ● 802.11n: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54, and m0-m15	
Maximum transmit power (2-channel aggregate)	● 802.11a: 15dBm ● 802.11b: 20 dBm ● 802.11g: 17 dBm ● 802.11n: 16 dBm **Note:** Maximum power setting is subject to change by channel and by region, depending on regulations.	
Physical dimensions and weight	Weight: 5.5 lb (2.5 kg) maximum Product dimensions: ● Cisco 892FSP, 896VA, 897VA, 897VAB, 898EA, and 891F: 　◦ H x W x D =1.82 x 12.71 x 9.78 in. (4.62 x 32.28 x 24.84 cm) (includes rubber feet) 　◦ H x W x D = 1.75 x 12.71 x 9.78 in. (4.45 x 32.28 x 24.84 cm) (without rubber feet) ● Cisco 891-24X: 　◦ H x W x D = 1.75 x 17.25 x 12 in. (4.62 x 43.81 x 30.48 cm) (includes rubber feet) 　◦ H x W x D = 1.75 x 17.25 x 12 in. (4.45 x 43.81 x 30.48 cm) (without rubber feet)	
External power supply	Product power specifications: ● AC input voltage: Universal 100 to 240 VAC ● Frequency: 50 to 60 Hz ● Maximum output power: 60W ● Output voltages: 12 VDC ● Optional PoE: 　◦ Separate 80W PoE power supply for Cisco 891 and 892 ISRs 　◦ Single 125W power supply required for Cisco 896, 897, 898, and 891F for router and PoE 　◦ The Cisco 891-24X uses the internal power supply for PoE ● External output voltage: 48 VDC	

Feature	Specification

Approvals and compliance	● Emission
	● 47 C FR Part 15: 2006
	  ◦ CISPR22: 2005
	  ◦ EN300386: V1.3.3: 2005
	  ◦ EN55022: 2006
	  ◦ EN61000-3-2: 2000 [Inc amd 1 & 2]
	  ◦ EN61000-3-3: 1995 [+ amd 1: 2001]
	  ◦ ICES-003 Issue 4: 2004
	  ◦ KN 22: 2005
	  ◦ VCCI: V-3/2006.04
	● Immunity
	● CISPR24: 1997 [+ amd 1 & 2]
	  ◦ EN300386: V1.3.3: 2005
	  ◦ EN50082-1: 1992
	  ◦ EN50082-1: 1997
	  ◦ EN55024: 1998 [+ amd 1 & 2]
	  ◦ EN61000-6-1: 2001

Environmental operating range	● Nonoperating temperature: -4 to 149°F (-0 to 65°C) ● Nonoperating humidity: 5 to 95% 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)

Ordering Information

Table 4 lists the part numbers and Cisco IOS Software and WLAN software image details for each of the 890 Series ISR models. To place an order, visit the Cisco Ordering Home Page. To download software, visit the Cisco Software Center.

Table 4.   Product Part Numbers and Software Images

Product Part Number	Product Description
Integrated Services Routers	
C892FSP-K9	Cisco 892FSP Gigabit Ethernet security router with SFP
C896VA-K9	Cisco 896VA Gigabit Ethernet security router with SFP and VDSL/ADSL2+ Annex B
C897VA-K9	Cisco 897VA Gigabit Ethernet security router with SFP and VDSL/ADSL2+ Annex A
C897VAW-A-K9	Cisco 897VA Gigabit Ethernet security router with SFP and VDSL/ADSL2+ Annex A with Wireless
C897VAW-E-K9	Cisco 897VA Gigabit Ethernet security router with SFP and VDSL/ADSL2+ Annex A with Wireless
C897VA-M-K9	Cisco 897VA Gigabit Ethernet security router with SFP and VDSL/ADSL2+ Annex M
C897VAM-W-E-K9	Cisco 897VA Gigabit Ethernet security router with SFP and VDSL/ADSL2+ Annex M with Wireless

Product Part Number	Product Description
C897VAB-K9	Cisco 897VA Gigabit Ethernet security router with SFP and VDSL2/ADSL2+ Bonding over POTS
C898EA-K9	Cisco 898EA Gigabit Ethernet security router with SFP and 4 channel multimode G.SHDSL (EFM/ATM)
C891F-K9	Cisco 891F Gigabit Ethernet security router with SFP
C891-24X/K9	Cisco 891 Gigabit Ethernet security router with SFP and 24-ports Ethernet Switch
C891FW-A-K9	Cisco 891F Gigabit Ethernet security router with SFP and Dual Radio 802.11n Wifi for FCC -A domain
C891FW-E-K9	Cisco 891F Gigabit Ethernet security router with SFP and Dual Radio 802.11n Wifi for ETSI -E domain

Cisco 892FSP is supported only on Cisco IOS Software Release 15.2(4)M and later Cisco 896, 897, 898EA is supported only on Cisco IOS Software Release 15.2(4)M1 and later Cisco 891F is supported only on Cisco IOS Software Release 15.3(3)M2, 15.4(1)T and later C897VAB is supported only on Cisco IOS Software Release 15.4(3)M1 and later C891-24X is supported only on Cisco IOS Software Release 15.5(1)T and later	
Memory Options	
FL-8XX-512U1GB	512 MB DRAM upgrade to 1 GB for Cisco 892FSP, 896VA, 897VA, 897VAB, 898EA, 891F model (Feature License)
Router Software Images	
Image	C800-universalk9-mz: Universal image for Cisco 892FSP, 896VA, 897VA, 897VAB, 898EA, 891F, 891-24X
Access Point Software Images	
ap802-k9w7-tar	Autonomous software image for ap802
ap802-rcvk9w8-tar	Lightweight Access Point Protocol (LWAPP) recovery image for ap802
Power over Ethernet Options	
800-IL-PM-4 with 125W PSU	4-port 802.3af capable internal power module for C896, C897, C898, C891F routers
Security Services	
Scan SafeCloud Web Security	

Product Part Number	Product Description
ScanSafe Connector	https://www.cisco.com/en/US/prod/vpndevc/ps6525/ps6538/ps6540/isr_web_security.html.
Supported SFP Types on the Cisco 892F Series and Cisco 892FSP, 896VA, 897VA, 897VAB, 898EA, 891F	
GLC-LH-SM	1000BASE-LX/LHSFP transceiver module for MMF and SMF, 1300-nm wavelength, dual LC/PC connector
GLC-SX-MM	1000BASE-SXSFP transceiver module for MMF, 850-nm wavelength, dual LC/PC connector
GLC-ZX-SM	1000BASE-ZXSFP transceiver module for SMF, 1550-nm wavelength, dual LC/PC connector
GLC-BX-D	1000BASE-BX10SFP module for single-strand SMF, 1490-nm TX/1310-nm RX wavelength, single LC/PC connector
GLC-BX-U	1000BASE-BX10SFP module for single-strand SMF, 1310-nm TX/1490-nm RX wavelength, single LC/PC connector
GLC-T	1000BASE-T standard
GLC-GE-100FX	Cisco 100BASE-FX SFP for Gigabit Ethernet SFP ports with Multimode Fiber-optic (MMF) link
GLC-FE-100LX	Cisco 100BASE-LX10SFP with single-mode fiber-optic (SMF) link
GLC-FE-100BX-U	100BASE-BX10-U SFP module for 100-MB ports, 1310 nm TX/1550 nm RX wavelength, 10 km over single-strand SMF
GLC-FE-100BX-D	100BASE-BX10-D SFP module for 100-MB ports, 1550 nm TX/1310 nm RX wavelength, 10 km over single-strand SMF
CWDM-SFP-1470=	Cisco Coarse-Wavelength Division Multiplexing (CWDM) 1470-nm SFP Gigabit Ethernet and 1G/2G fibre Channel
GLC-LH-SMD[*]	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength
GLC-ZX-SMD[*]	1000BASE-ZX SFP transceiver module for SMF, 1550-nm wavelength, dual LC/PC connector
GLC-EX-SMD[*]	1000BASE-EX SFP transceiver module for SMF, 1310-nm wavelength
[*]Not supported on the Cisco 892F	
Rack Mount Kit for 890	

Product Part Number	Product Description
ACS-890-RM-19	Rackmount kit for all 890s, except C891-24X
ACS-2901-RM-19	Rackmount kit for 891-24X

Cisco ONE Software for WAN is available for the ISR 890.

Cisco ONE Software offers a complete solution that delivers an optimal experience over any connection while helping you get the most from your WAN investment with secure, fault-tolerant connectivity.

Benefits:

● Connect branch offices and your campus securely at an optimal cost by improving application performance through application protocol acceleration and optimization techniques that offload the WAN.

● Integrate voice and video across branch offices and your campus to increase productivity.

For ordering information for Cisco ONE Software for the ISR 890, go to https://www.cisco.com/c/en/us/products/software/one-wan/wan-part-numbers.html.

Cisco and Partner Services

Services from Cisco and our certified partners can help you reduce the cost and complexity of branch-office deployments. We have the depth and breadth of experience across technologies to architect a blueprint for a branch-office solution to meet your company's needs. Planning and design services align technology with business goals and can increase the accuracy, speed, and efficiency of deployment. Technical services help maintain operational health, strengthen software application functions, solve performance problems, and lower expenses. Optimization services are designed to continually improve performance and help your team succeed with new technologies. For more information, visit https://www.cisco.com/go/services.

Cisco SMARTnet[®] technical support for the Cisco 890 Series ISRs 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 access to the industry's largest dedicated technical support staff

Cisco Capital

Financing to Help You Achieve Your Objectives

Cisco Capital can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital is available in more than 100 countries. Learn more.

For More Information

For more information about the Cisco 890 Series ISRs, visit https://www.cisco.com/c/en/us/products/routers/890-integrated-services-routers-isr/index.html or contact your local Cisco account representative.