ComX Computers
Product Specification Sheet

CISCO892-K9

Cisco 892 Integrated Services Router

Product Overview

Cisco 892 GigaE SecRouter





Specifications

Overview:

Cisco 890 Series Integrated Services Routers (ISRs) are fixed-configuration routers that provide collaborative business solutions for secure voice and data communications to enterprise small branch offices (Figure 2). They are designed to deliver secure broadband, Metro Ethernet, wireless LAN (WLAN) connectivity, and business continuity. The routers also come with powerful management tools, such as the web-based Cisco Configuration Professional configuration management tool, which simplifies setup and deployment. Centralized management capabilities give network managers visibility and control of the network configurations at the remote site.

Cisco 890 Series Integrated Services Routers offer the following:

- The routers offer high performance for secure broadband and Metro Ethernet access with concurrent services for enterprise small branch offices.
- They provide business continuity and WAN diversity with redundant WAN links: Fast Ethernet (FE), V.92, ISDN Basic Rate Interface (BRI), Gigabit Ethernet (GE), ADSL2+/VDSL (Annex A/B/M), Multimode G.SHDSL, and Small Form-Factor Pluggable (SFP).
- An integrated secure 802.11a/g/n access point (optional) is based on the draft 802.11n standard. Dual-band radios allow for mobility and support for autonomous or Cisco Unified WLAN architectures.
- The routers offer enhanced security including:
- Firewall with advance application and control for email, instant messaging (IM), and HTTP traffic
- Site-to-site remote-access and dynamic VPN services: IP Security (IPsec) VPNs (Triple Data Encryption Standard [3DES] or Advanced Encryption Standard [AES], Dynamic Multipoint VPN [DMVPN], Group Encrypted Transport VPN with onboard acceleration, and Secure Sockets Layer [SSL] VPN)
- Intrusion prevention system (IPS): An inline, deep-packet-inspection feature that mitigates a wide range of network attacks
- Web security with Cisco ScanSafe deployment
- The 8-port 10/100 Fast Ethernet managed switch offers VLAN support and 4-port support for Power over Ethernet (PoE) (optional for certain models) to power IP phones or external access points. The Cisco 892FSP, 896VA, 897VA, 898EA, and

891F have an 8-port 10/100/1000 Gigabit Ethernet managed switch with VLAN support. No PoE support is available for the Cisco 892FSP. For the PoE option on the Cisco 896VA, 897VA, 898EA, and 891F models, there is a 125W power supply adapter to power the unit and the 4 PoE ports. On the Cisco 891 and 892 a second 80W power supply adapter provides power to the PoE ports.

- Metro Ethernet features include:
- One 1000BASE-T Gigabit Ethernet WAN port
- One 10/100BASE-T Fast Ethernet WAN port on the Cisco 891, 892, and Cisco 891F or 1-port Gigabit Ethernet WAN port on the Cisco 892FSP, 896VA, 897VA, and 898EA
- One 1-port Gigabit Ethernet SFP socket for WAN connectivity on the Cisco 892F, 892FSP, 896VA, 897VA, 898EA, and 891F (Note: Only the 1000BASE-T Gigabit Ethernet WAN or the SFP is operational at a given time.)
- Intelligent hierarchical quality of service (HQoS): Support for hierarchical queuing and shaping
- Connectivity Fault Management (CFM), based on 802.1ag
- 802.3ah standards-based link operations, administration, and maintenance (OA&M)
- Ethernet Local Management Interface (E-LMI) for the customer edge
- CFM Interworking and backward compatibility
- Performance management based on IP service-level agreement (SLA) for Ethernet
- Dedicated console and auxiliary ports for configuration and management.
- Two USB 2.0 ports for security eToken credentials, booting, and loading configuration from USB available on the Cisco 891, 892, and 892F.
- Cisco 892FSP, 896VA, 897VA, 898EA, and 891F are fanless, providing a quiet, comfortable working environment in small offices.
- One USB 2.0 port for booting and loading configurations from the USB port is available on the Cisco 892FSP, 896VA, 897VA, 898EA, and 891F.
- Easy to set up and deploy, the Cisco 890 ISRs offer centralized and remote-management capabilities through web-based tools and Cisco IOS Software.

Architecture Features and Benefits:

Secure Network Connectivity

Cisco 890 Series Routers deliver high performance with integrated security and threat defense. Network security has become a fundamental building block of any network, and Cisco routers play an important role in embedding security at the customer's access edge. Cisco recognizes this requirement, so Cisco 890 Series Routers are equipped with security hardware acceleration and Cisco IOS Software (by default, a universal image with Advanced IP Services feature license). This Cisco IOS Software feature set facilitates hardware-based IPsec encryption on the motherboard and provides a robust array of security capabilities such as Cisco IOS Firewall, Cisco ScanSafe Connector, IPS support, IPsec VPNs (DES, 3DES, and AES), SSL VPN, tunnel-less Group Encrypted Transport VPN, DMVPN, Easy VPN server and client support, Secure Shell (SSH) Protocol Version 2.0, and Simple Network Management Protocol (SNMP) in one solution set.

Cisco 890 Series Routers come with a comprehensive security solution that protects organizations' networks from known and new Internet vulnerabilities and attacks while improving employee productivity. Security suite also includes the following:

- FlexVPN: Large customers deploying IPsec VPN over IP networks are faced with high complexity and high cost of deploying multiple types of VPN to meet different types of connectivity requirements. Customers often have to learn different type of VPNs to manage and operate different types of networks. And when a technology is selected for a deployment, migrating or adding functions to enhance the VPN is often avoided. FlexVPN was created to simplify the deployment of VPN and address the complexity of multiple solutions, and, as a unified ecosystem, to cover all types of VPNs: remote-access, teleworker, site-to-site, mobility, managed security services, and others.
- Next-generation encryption (NGE): Traditional encryption standards (Internet Key Exchange Version 1 [IKEv1], Secure Hash Algorithm1 [SHA-1], etc.) were developed more than a decade ago. They are no longer considered as secure as before. NGE

is meant to refresh the existing security protocols to the next level based on the standard Suite-B algorithms such as SHA-2, AES-Galois Counter Mode (AES-GCM), Elliptic Curve Diffie-Hellman (ECDH), Elliptic Curve Digital Signature Algorithm (ECDSA), IKEv2, etc. NGE offers customers secure network communications systems that will be reliable for the next decade.

- Cisco ISR Web Security with Cisco ScanSafe: Cisco Cloud Web Security is a cloud-based service designed to prevent zero-day malware from reaching corporate networks, including roaming or mobile users. The Cisco ScanSafe Cloud Web Security solution requires no hardware, initial capital costs, or maintenance and provides unparalleled real-time threat protection (Figure 3). This solution is scalable and easy to maintain, and is ideally suited for small businesses and enterprise small branch offices.

Metro Ethernet Connectivity

Cisco 890 Series Routers are ideal for service provider deployments as Metro Ethernet customer premises equipment (CPE). The routers also provide failover protection and load balancing. The 8-port managed switch provides enough LAN ports for connecting multiple devices, and the optional PoE capability can supply power to IP phones or other devices. The Cisco 890 Series offers customers significant value by simplifying deployment of Ethernet WAN services with end-to-end OA&M, service-level agreement (SLA) monitoring and verification, and configuration management, resulting in increased operational efficiency and reduced operating expenses (OpEx).

The Cisco 890 Series supports the following Metro Ethernet features:

- E-LMI: Basic configuration for detection and isolation of connectivity in the Metro Ethernet network
- E-LMI: Automated configuration of customer edge based on profiles configured:
- Layer 2 connectivity management
- E-LMI for the customer edge
- Metro Ethernet OA&M:
- Debugging hierarchy of Ethernet networks
- Layer 2 service performance monitoring
- 802.1agCFM:
- Standard that uses domains to contain OA&M flows and bound OA&M responsibilities
- 802.3ah: Ethernet in the First Mile (EFM)
- Three types of packets: Continuity Check, Layer 2 Ping, and Layer 2 Traceroute
- IP SLA for Ethernet

High Availability

Cisco 890 Series Routers enable customers to deliver high-performance, high-availability, mission-critical business applications (Figure 5). The Cisco IOS Software universal image with Advanced IP Services feature license (default) offers basic and advanced routing capabilities to deliver failover protection and load balancing. These capabilities include Virtual Router Redundancy Protocol (VRRP) (RFC 2338), Hot Standby Router Protocol (HSRP), MultigroupHSRP (MHSRP), and dial backup with external modem through a virtual auxiliary port. Cisco 890 Series Routers are integrated with ISDN BRI (892, 896, and 897 models), a V.92 analog modem (891 model), or a Gigabit Ethernet port for a secondary WAN backup connection. The Cisco 891F supports both the ISDN BRI and a V.92 analog modem with a Fast Ethernet port for a secondary WAN backup connection. If the primary Ethernet-access WAN is disconnected, the router detects this failure and fails over to the secondary backup WAN.

Integrated Wireless LAN Capability

The Cisco 890 Series is ideal for enterprise small branch offices and small businesses that need to be connected to larger enterprise networks. These routers help extend corporate networks to secure remote sites while giving users access to the same applications found in a corporate office. They provide increased reliability for diversity of wireless data, voice, and video applications. When users require WLAN access, visibility and control of network security are even more critical at the remote

site. The Cisco 890 Series meets this need with a single device that combines integrated 802.11a/g/n capabilities with security features such as Wi-Fi Protected Access (WPA), including authentication with IEEE 802.1X with Cisco Extensible Authentication Protocol (LEAP) and Protected EAP (PEAP), and encryption with WPA Temporal Key Integrity Protocol (TKIP). The Cisco 890 Series wireless models that include the integrated access point have full feature parity with the Cisco Aironet 1250 Series Access Point and can be used in either autonomous or Cisco Unified WLAN modes. In Cisco Unified WLAN mode, as part of an enterprise WLAN architecture, all WLAN functions are centrally managed through Cisco Wireless LAN Controllers and the Cisco Wireless Control System (WCS). The Cisco 897 and 891F with wireless support Cisco CleanAir technology.

Specifications:

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Specifications	
Product Code	CISCO892-K9
WAN Interface	1-port GE
	1-port FE
LAN Interfaces	8-port 10-/100-Mbps managed switch
802.11a/g/n Option	Yes
Integrated USB 2.0/AUX/Console	Yes/Yes/Yes
Integrated Dial Backup	ISDN BRI

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: https://www.comx-computers.co.za/CISCO892-K9-Cisco-892-Integrated-Services-Router-p-101245.php

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