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Refurbished CISCO CISCO871W-G-E-K9 Datasheet

CISCO > ROUTERS

Cisco 800 Series Routers

Features and Benefits of the Cisco 870 Series

Feature	Benefits
Increased Performance to Run Concurrent Services	The performance in a Cisco 870 Series router allows customers to take advantage of broadband network speeds while running secure, concurrent data, voice, and video services
Enhanced Security	Integrated Stateful Inspection Firewall for network perimeter security, high-speed IPSec 3DES and AES encryption for data privacy over the Internet, IPS, and antivirus support through NAC to enforce security policy in a larger enterprise or service provider network
4-Port 10/100 Mbps Managed Switch	Allows multiple devices to be connected in a small office, with the ability to designate a port as network DMZ Optional external PoE adapter for powering IP phones, to avoid individual power supplies or power injectors VLANs allow for secure segmentation of network resources
Optional 802.11b/g WLANs with Support for Multiple Antennas	Broadband router with secure WLAN in a single device Diversity antennas for optimizing coverage in a small office Options for replaceable external antennas, to get wireless coverage in areas away from where the router is located
Cisco SDM and Cisco IOS Software for Remote Management	Using smart wizards and task-based tutorials, Cisco SDM helps resellers and customers quickly and easily deploy, configure, and monitor a Cisco access router without requiring knowledge of the Cisco IOS ® Software command-line interface (CLI) Dial backup and out-of-band management allow IT managers to remotely manage the router at small office and teleworker sites Cisco Configuration Express Service supports factory-loaded configurations for high-volume deployments Support for the Cisco Configuration Engine enables plug-and-play installations with centralized configuration management

Cisco IOS Software Features on Cisco 870 Series Routers-Advanced Security Feature Set (Default)

Routing Protocols and General Router Features	Routing Information Protocol (RIPv1 and RIPv2) Layer 2 Tunneling Protocol (L2TP) Cisco Express Forwarding (CEF) Port Address Translation (PAT) RFC 1483/2684 Point-to-Point Protocol over ATM (PPoA) (DSL models only) PPP over Ethernet (PPPoE) 802.1d Spanning Tree Protocol (STP) Dynamic Host Control Protocol (DHCP) server/relay/client Access control lists (ACLs) Generic routing encapsulation (GRE) Dynamic DNS Support for Cisco IOS
Recommended Number of Users	20
DSL and ATM Features (DSL Models Only)	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 10 virtual circuits
Security Features	Stateful Inspection Firewall Bridging firewall (Cisco 871 only) NAT transparency Firewall support for skinny clients Hardware-accelerated 3DES for IPSec Hardware-accelerated AES for IPSec Cisco Easy VPN Client and Server

	IPSec 3DES termination/initiation IPSec passthrough Point-to-Point Tunneling Protocol (PPTP) passthrough L2TP passthrough 802.1x Secure HTTP (HTTPS), FTP, and Telnet authentication proxies 10 VPN Tunnels Advanced Application Inspection and Control E-mail Inspection Engine No Service Password Recovery HTTP Inspection Engine System Logging-EAL4 Certification Enhancements Easy VPN Remote Web Based Activation
QoS Features	Weighted Fair Queuing (WFQ) Class-Based WFQ (CBWFQ) Low-Latency Queuing (LLQ) Class-Based Traffic Shaping (CBTS) (Cisco 871 only) Class-Based Traffic Policing (CBTP) (Cisco 876, 877, and 878 only) Class-Based QoS MIB Prefragment before encryption TX ring adjustment VC bundling Policy-based routing (PBR) Per-VC queuing Per-VC traffic shaping
Management Features	Cisco SDM Management of LAN switch ports Cisco Configuration Express Cisco Configuration Engine support DSL firmware update from Flash Cisco Service Assurance Agent (SAA) Telnet, Simple Network Management Protocol (SNMPv3), CLI, and HTTP management RADIUS and TACACS+
High-Availability Features	Virtual Router Redundancy Protocol (VRRP) (RFC 2338) Hot Standby Router Protocol (HSRP) Out-of-band management with external modem through virtual auxiliary port Dial backup with external modem through virtual auxiliary port ISDN S/T port for out-of-band management (Cisco 876 and 878 only)
VLAN	Support for 2 VLANs with Base Image. One VLAN dedicated to DMZ.

Cisco IOS Software Features on Cisco 870 Series Routers-WLAN Features (Available with Wireless Option)

WLAN Hardware	802.11b/g Automatic rate selection for 802.11b/g RP-TNC connectors for field-replaceable external antennas (antenna options for extended coverage) Antenna diversity Indoor range: 1 Mbps at 320 ft WECA interoperability Default antenna gain: 2.2 dBi PoE (optional external adapter for Inline power) for IP phones or external wireless access points
WLAN Software Features	Maximize throughput or maximize range option Software-configurable transmit power Universal Client Mode (allows radio to connect router to external WLAN network) Wireless Multi Media Certification (WMM) SSID Globalization
WLAN Security Features	802.1 802.11i Wi-Fi Protected Access (WPA) & AES (WPA2) EAP Authentication: Cisco LEAP, PEAP, EAP-TLS, EAP-FAST, EAP-SIM, EAP-MD5, EAP-TTLS Static and dynamic Wired Equivalent Privacy (WEP) Temporal Key Integrity Protocol (TKIP)/SSN [Temporal Key Integrity Protocol/Simple Security Network encryption MAC authentication/filter User database for survivable local authentication using LEAP & EAP-FAST Configurable limit to the number of wireless clients Configurable RADIUS accounting for wireless clients PSK (Pre Shared Keys) (WPA-SOHO)
SSIDs	10
Wireless VLANs	10
Encrypted Wireless VLANs	4

MBSSIDs	2

Cisco IOS Software Features on Cisco 870 Series Routers-Advanced IP Services Feature Set (Optional Software Upgrade)

Routing Protocols	Open Shortest Path First (OSPF) Border Gateway Protocol (BGP) Enhanced Interior Gateway Routing Protocol (EIGRP)
General Router Features	4 802.1q VLANs on Advanced IP Services IOS image Web Content Caching Protocol (WCCP) Demilitarized Zone (DMZ) ARP-Auto Logoff
Security Features	Intrusion detection system/intrusion prevention system (IDS/IPS) Dynamic Multipoint VPN (DMVPN) (multipoint GRE and Next Hop Resolution Protocol [NHRP]) Tunnel-less Group Encrypted Transport (GET VPN) Lock and Key URL filtering: Websense and N2H2 Digital certificates (PKI) Network Admissions Control (NAC)
IPv6 Features	IPv6 addressing architecture IPv6 name resolution IPv6 statistics IPv6 translation-transport packets between IPv6-only and IPv4-only endpoints ICMPv6 IPv6 DHCP
QoS Features	Priority and custom queuing Class-Based Weighted Random Early Detection (CBWRED) Network-Based Application Recognition (NBAR) Link Fragmentation and Interleaving (LFI) Resource Reservation Protocol (RSVP) RTP Header compression (Real Time Protocol) Differentiated Services (DiffServ) QoS Preclassify & Pre-fragmentation Class-Based Marking (CBM)
Multicast Features	Protocol Independent Multicast (PIM) Sparse Mode PIM Sparse-Dense Mode Auto Route Processing (Auto-RP)
High-Availability Features	Multigroup HSRP (MHSRP)

Cisco IOS Software Features on Cisco 870 Series Routers-Advanced Enterprise Services Feature Set (Optional Software Upgrade on Cisco 876 Only)

High-Availability Features	Integrated dial backup for ADSL using ISDN S/T port Primary ISDN WAN ISDN Leased Line at 128Kbps

Hardware Specifications

Receive Sensitivity

Receive Sensitivity	802.11b -94dBm @ 1 Mbps -93dBm @ 2 Mbps -92dBm @ 5.5 Mbps -90dBm @ 11 Mbps 802.11g -92dBm @ 6 Mbps -90dBm @ 9 Mbps -89dBm @ 12 Mbps -87dBm @ 18 Mbps -85dBm @ 24 Mbps -81dBm @ 36 Mbps -76dBm @ 48 Mbps -73dBm @ 54 Mbps
Maximum Transmit Power	Note: Maximum power setting subject to changes by channel & by region depending on regulations 802.11b Average: 80mW (19dBm), Peak: (FCC) 245mW (23.9dBm) 802.11g Average: 50mW (17dBm)

Physical Dimensions and Weight	
Physical Dimensions and Weight	Product dimensions: H x W x D = 2.00 x 10.25 x 8.50 in. (50.8 mm x 260.4 mm x 215.9.9 mm) (nonwireless models) H x W x D = 2.00 x 10.25 x 9.13 in. (50.8 mm x 260.4 mm x 231.9 mm) (wireless models with antenna connectors, excludes antennae) Weight: 2.10 lb (0.954 kg) maximum Optional external PoE adapter dimensions: H x W x D = 1.13 x 4.00 x 10.25 in. (28.9 x 101.6 x 260.4 mm) (cables included) H x W x D = 1.13 x 4.00 x 4.25 in. (28.9 x 101.6 x 108 mm) (cables not included) Weight = 0.32 lb (0.143 kg)
Power	Product power specifications: AC input voltage: 100 to 240 VAC Frequency: 50 to 60 Hz Maximum output power: 26W Output voltages: 5 and 12V Optional external Inline PoE adapter specifications: 802.3af compliant (Mid-span power delivered via pins 4,5,7 & 8) AC Input Voltage: 100 to 240 VAC Frequency: 50 to 60 Hz AC Input Current: 1A maximum Maximum output power: 80W Output voltage: 48 VDC Optional external Inline PoE adapter specifications: 802.3af compliant (Mid-span power delivered via pins 4,5,7 and 8)
Approvals and Compliance	UL 1950/ CSA 950-95, Third Edition IEC 950:Second Edition with Amendments 1, 2, 3, and 4 IEC/EN 60950-1, 1st edition CS-03, Canadian Telecom Requirements FCC Part 68 U.S. Telecom Requirements AS/NZS 3260:1996 with Amendments 1, 2, 3, and 4 ETSI 300-047 TS 001 with Amendment 1 EMI AS/NRZ 3548:1992 Class B\ CFR 47 Part 15 Class B EN60555-2 Class B EN55022 Class B VCCI Class II ICES-003, Issue 2, Class B, April 1997S IEC 1000-3-2 UNI 3.1/4.0 PVC ITU G.991.2 G.SHDSL
Environmental Operating Range	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)

The next steps...

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