

Refurbished CISCO C867VAE-K9 Datasheet

CISCO > ROUTERS

Cisco 800 Series Routers

Cisco 860VAE Models

WAN Interfaces	GE or Multimode VDSL2/ADSL2+ over basic telephone service
LAN Interfaces	2 GE + 3-port 10-/100-Mbps managed switch

Features and Benefits of Cisco 860VAE Series Routers

Feature	
Feature	Benefit
Increased performance	Performance that allows customers to take advantage of broadband network speeds while running secure, concurrent data, voice, and video services
Security and quality of service (QoS) with secure routers	IPsec and Easy VPN with 10 tunnels BGP MAC filtering and port security QoS features that include LLQ and WFQ NBAR and DiffServ
State-of-the-art xDSL	State-of-the-art xDSL features as per the latest ADSL2+/VDSL2 standards Improved interoperability vs. various DSL access multiplexers (DSLAMs) deployed at worldwide service providers
WAN diversity	GE or DSL Multimode VDSL2 and ADSL 1, 2, and 2+ Multiple WAN options within the same box to allow consistent configuration across diverse deployments
Managed switch with GE and FE LAN ports	Connection of multiple devices within a teleworker home or a small office, with the ability to designate a port as the network edge VLANs that allow for secure segmentation of network resources
Wireless LAN	802.11n 2.4 GHz FCC- or ETSI-compliant WiFi Cisco IOS Software command-line interface (CLI) or web-based configuration with Admin/Guest role-based access.
CON/AUX port	A single dual-purpose port that provides direct connection to a console or external modem for management or backup access point
Real-time clock	A built-in real-time clock that maintains an accurate date and time for applications that require an accurate time stamp, such as logging and digital certificates

Cisco IOS Software Releases and Default Cisco IOS Software Feature Sets

Cisco IOS Software Image	c860vae2-advseck9-mz
Default Feature Set	Advanced Security
First Cisco IOS Software Release	15.6(3)M

Cisco IOS Software Features on Cisco 860VAE Base Router Series: IP Base Feature Set

IP and IP services features	Basic IP data connectivity including: IP multicast and IP routing IPv6 Routing Information Protocol Versions 1 and 2 (RIPv1 and RIPv2) Network Address Translation (NAT)
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	Access control lists (ACLs) Dynamic Host Configuration Protocol (DHCP) server, relay, and client Dynamic Domain Name System (DNS) DNS proxy and DNS spoofing
xDSL, ATM, and Ethernet in the First Mile (EFM)	G.922.1 (G.dmt Annex A, B), T1.413 (ANSI) G.992.3 and 5 (ADSL2/2+ Annex A, B, M) G.993.2 (VDSL2) ATM QoS, operations, administration, and maintenance (OAM), and loopback Packet Transfer Mode (PTM) TX ring adjustment Point-to-Point Protocol over ATM (PPPoA) PPP over Ethernet (PPPoE)
Switch features	Auto Media Device In/Media Device Cross Over (MDI-MDX) Five 802.1Q VLANs
IPv6 features	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 Version 6 (ICMPv6) IPv6 DHCP
Embedded management features	Simple Network Management Protocol Version 3 (SNMPv3) Secure Shell (SSH) Protocol with Secure HTTP (HTTPS) Embedded Event Manager (EEM)
Number of recommended users	10

Advanced Security Feature Set on Cisco 860VAE-K9 Secure Router Series

Feature	
Security features	Secure connectivity: Ten IPsec tunnels Easy VPN/IPsec VPN FlexVPN including Site-Site VPN on 860VAE-W and C860VAE* models Firewall Cloud Web Security (Scansafe) Connector
Routing and switching	Border Gateway Protocol (BGP) MAC Filtering Port Security IPv4 VRF-Lite (Support for 4 VRFs)
QoS features	LLQ, WFQ Class-Based WFQ (CBWFQ) Policy-Based Routing (PBR) Class-Based QoS MIB Class of service (CoS)-to-differentiated services code point (DSCP) mapping Network-Based Application Recognition (NBAR) DiffServ
Embedded management features	NetFlow IP service-level agreement (IP SLA) Web Services Management Agent

System Specifications

Feature	
DRAM	256 MB (nonwireless routers) 512 MB (wireless routers) 512MB (For C867VAE, C866VAE-K9, C867VAE-K9)
Flash memory	56 MB for Cisco 866VAE-K9 and 867VAE-K9 Secure Routers 64 MB for Cisco 866VAE and 867VAE Base Routers 128 MB for C866VAE-W-K9 and C867VAE-W-K9 Secure Wireless Routers 128MB for C867VAE, C866VAE-K9, C867VAE-K9 Routers
WAN	Gigabit Ethernet or Multimode VDSL2 and ADSL2/2+ over ISDN or Multimode VDSL2 and ADSL2/2+ over basic telephone service
LAN	Base routers: Managed 4-port 10/100BASE-T with autosensing MDI/MDX Secure routers: 1 GE + 4-port 10/100BASE-T with autosensing MDI/MDX Secure Wireless routers: 2 GE + 3-port 10/100BASE-T with autosensing MDI/MDX

	Secure Wireless routers: 802.11n 2.4 GHz ETSI/FCC compliant
Console or auxiliary port	RJ-45
Power over Ethernet	1-port 15W PoE on C867VAE-POE-W-A-K9 SKU only
USB	One USB 2.0 USB port can be used for: USB flash memory 128 MB (MEMUSB-128FT), 256 MB (MEMUSB-256FT), and 1 GB (MEMUSB 1024FT) Cisco IOS Software boot from USB Note: USB 2.0 port cannot be used for connecting external devices or as a console other than those specified at https://www.cisco.com/en/US/prod/collateral/modules/ps6247/product_data_sheet0900aecd80232473.html.
Physical dimensions and weight	Product dimensions, base routers (part numbers CISCO866VAE and CISCO867VAE): H x W x D = 1.75 x 9.5 x 9.0 in. (4.45 x 24.1 x 22.9 cm), 1 rack unit (1 RU) Product dimensions, secure routers (CISCO866VAE-K9 and CISCO867VAE-K9): H x W x D = 1.75 x 9.5 x 9.0 in. (4.45 x 24.1 x 22.9 cm), 1 RU Weight: 5.5 lb (2.5 kg) maximum
Power	Product power specifications: AC input voltage: 100 to 240 VAC Frequency: 50 to 60 Hz Maximum output power: 60W Output voltages: 12 VDC
Approvals and compliance	Emissions: 47 CFR Part 15: 2006 CISPR22: 2005 EN300386: V1.3.3: 2005 EN55022: 2006 EN61000-3-2: 2000 [Inc amd 1 and 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 and 2] EN55024: 1998 [+ amd 1 and 2] EN61000: 4-3, 4-6 AS/NZS 3548 CFR 47 Part 15 Class B EN55022 Class B
Environmental operating range	Nonoperating temperature: -4 to 149°F (-20 to 65°C) Nonoperating humidity: 5 to 95% relative humidity (noncondensing) Nonoperating altitude: 0 to 15,000 ft (0 to 4570m) Operating temperature At sea level: 32 to 104°F (0 to 40°C) Up 10,000 ft: 32 to 77°F (0 to 25°C) Derating 2.7°F/10,000 ft (1.5°C/1000 ft) Operating humidity: 10 to 85% relative humidity (noncondensing) Operating altitude: 0 to 10,000 ft (0 to 3000m)

DSL Feature Specifications

DSL Specifications

Multimode DSL (VDSL2 and ADSL2 and 2+)	Broadcom chipset Dying gasp (Note: Dying Gasp is not assured on Annex M) IEEE 802.1q VLAN tagging VDSL2: ITU G.993.2 (VDSL2) 997 and 998 band plans VDSL2 profiles: 8a, 8b, 8c, 8d, 12a, 12b, and 17a U0 band support (25–276 kHz) Ethernet PTM mode only based on IEEE 802.3ah 64/65 octet encapsulation DELT diagnostics mode ADSL2/2+: ADSL over basic telephone service with Annex A and ISDN Annex B ITU G. 992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) ADSL2+ over basic telephone service Annex M (for extended upstream bandwidth) for G.992.3 (ADSL2) and G.992.5 (ADSL2+) Note: Annex M performance is not optimal over Annex A SKUs. G.994.1 ITU G.hs Handshake Protocol Reach-extended ADSL2 (G.922.3) Annex L for increased performance on loop lengths greater than 16,000 feet from central office T1.413 ANSI ADSL DMT issue 2 DSL Forum TR-067 and TR-100 performance compliant Impulse Noise Protection (INP) with Extended Framing Parameters
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Downstream Power Back Off (DPBO)
Fixed Firmware solution for General deployments. No ability to upgrade the Firmware on the 860VAE models (applicable to all non-Wifi models)

VDSL2 over ISDN and Basic Telephone Service DSLAM Interoperability for Cisco 866VAE and Cisco 867VAE

DSLAM	VDSL2 over ISDN and Basic Telephone Service Line-Card Chipset
ZTE 9806	Broadcom
Alcatel ISAM 7302	Ikanos
Alcatel ISAM 7302	Conexant
Huawei 5603	Broadcom

ADSL over ISDN DSLAM Interoperability for Cisco 866VAE

DSLAM	
DSLAM	ADSL2/2+ over ISDN Line-Card Chipset
Alcatel ASAM 7300	Broadcom
ECI Hi-Focus 480	Infineon
Ericsson ECN320	Broadcom
Siemens HiX 5300	Infineon

ADSL over Basic Telephone Service DSLAM Interoperability for Cisco 867VAE

DSLAM	ADSL2/2+ over Basic Telephone Service Line-Card Chipset
Alcatel ASAM 7300	Broadcom
Alcatel ISAM 7302	Broadcom
Ericsson EDA2.1	Broadcom
ECI Hi-Focus 480	Infineon
Fujitsu FDX Hub 1000	Infineon
Fujitsu FDX Hub 1000	Texas Instruments
Huawei MA5600	Conexant
Lucent Stinger	Conexant
Nokia D500	Globespan

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