

# Cisco 860VAE Series Integrated Services Routers

## Product Overview

The new Cisco® 860VAE Series Integrated Services Routers (ISRs) are part of the Cisco Integrated Services Routers Generation 2 (ISR G2) portfolio. Cisco 860VAE routers support Gigabit Ethernet (GE) or very-high-speed DSL 2/asymmetric DSL2+ (VDSL2/ADSL2+) on a single, fixed ISR. The Cisco 860VAE Series can provide cost-effective basic or secure wired or wireless connectivity for a casual or enterprise teleworker as well as serve as managed customer premises equipment (CPE) for service providers.

## Features and Benefits

Cisco 860VAE Series ISRs are entry-level, fixed-configuration routers that serve a range of business needs from providing basic connectivity for the casual teleworker to providing secure collaboration for the enterprise teleworker. For service providers, the Cisco 860VAE ISRs present an opportunity for tiered basic or secure managed CPE devices. With multiple WAN technologies offered within a single box (GE, ADSL2+, or VDSL2), the Cisco 860VAE, which shares a common architecture across its variants, allows for consistent management across various deployment scenarios. The Cisco 860VAE ISRs that come in a compact fanless desktop form factor provide improved performance, state-of-the-art xDSL features, and significantly better interoperability over the older Cisco 860 Series ISRs.

The Cisco 860VAE Series Integrated Services Routers offer:

- Cost-effective basic or secure connectivity with quality of service (QoS) for teleworkers and managed CPE devices for service providers
- Compact metallic desktop form factor featuring a fanless ISR for convenient home or office deployment
- WAN diversity with either Gigabit Ethernet or Multimode VDSL2/ADSL2+ on the same router to span multiple deployment scenarios with common architecture, embedded management, and consistent configurability
- State-of-the-art xDSL features and interoperability and enhanced ISR performance with services
- Four-port 10/100 Fast Ethernet (FE) managed switch for base models with five VLANs; additionally, one Gigabit Ethernet LAN port for the Cisco 860VAE secure routers
- Three 10/100 Fast Ethernet switch ports and two Gigabit Ethernet switch ports in the wireless models with 2.4 GHz 802.11n FCC- or ETSI-compliant wireless LAN
- Three 10/100 Fast Ethernet switch ports and two Gigabit Ethernet switch ports in the newer C867VAE, C866VAE-K9 and the C867VAE-K9 models
  
- Secure routers with enhanced security and QoS, including:
  - Border Gateway Protocol (BGP), Low-Latency Queuing (LLQ), and Weighted Fair Queuing (WFQ)
  - Class-based traffic shaping and traffic policing
  - Ten IP Security (IPsec) tunnels
  - Network-Based Application Recognition (NBAR) and Differentiated Services (DiffServ)

- CON/AUX port for console or external modem
- One USB 2.0 port to boot from USB or to load configuration
- IPv6 support on all models

Figure 1 shows a Cisco 860VAE Integrated Services Router, and Table 1 lists the Cisco 860VAE ISR models.

**Figure 1.** Cisco 860VAE Integrated Services Router



### Cisco 860VAE ISR: Three Functional Types

The Cisco 860VAE ISRs come in three functional types, the base router, which offers entry-level features and basic connectivity, the secure router, which offers advanced security and QoS options in addition to the basic features, and a secure wireless router, which adds wireless LAN connectivity and FlexVPN including site-to-site VPN. Each of these options is available for basic telephone service and ISDN xDSL connections.

**Table 1.** Cisco 860VAE Models

Models	WAN Interfaces	LAN Interfaces
<b>Cisco 866VAE</b>	GE or Multimode VDSL2/ADSL2+ over ISDN	4-port 10/100-Mbps managed switch
<b>Cisco 866VAE-K9 Secure Router</b>	GE or Multimode VDSL2/ADSL2+ over ISDN	1 GE + 4-port 10-/100-Mbps managed switch
<b>C866VAE-K9 Secure Router</b>	GE or Multimode VDSL2/ADSL2+ over ISDN	2 GE + 3-port 10-/100-Mbps managed switch
<b>Cisco 867VAE</b>	GE or Multimode VDSL2/ADSL2+ over basic telephone service	4-port 10-/100-Mbps managed switch
<b>C867VAE</b>	GE or Multimode VDSL2/ADSL2+ over basic telephone service	2 GE + 3-port 10-/100-Mbps managed switch
<b>Cisco 867VAE-K9 Secure Router</b>	GE or Multimode VDSL2/ADSL2+ over basic telephone service	1 GE + 4-port 10-/100-Mbps managed switch
<b>C867VAE-K9 Secure Router</b>	GE or Multimode VDSL2/ADSL2+ over basic telephone service	2 GE + 3-port 10-/100-Mbps managed switch
<b>C866VAE-W-E-K9 Wireless Secure Router</b>	GE or Multimode VDSL2/ADSL2+ over ISDN	2 GE + 3-port 10-/100-Mbps managed switch 802.11n 2.4 GHz ETSI-compliant wireless LAN
<b>C867VAE-W-E-K9 Wireless Secure Router</b>	GE or Multimode VDSL2/ADSL2+ over basic telephone service	2 GE + 3-port 10-/100-Mbps managed switch 802.11n 2.4 GHz ETSI-compliant wireless LAN
<b>C867VAE-W-A-K9 Wireless Secure Router</b>	GE or multimode VDSL2/ADSL2+ over basic telephone service	2 GE + 3-port 10-/100-Mbps managed switch 802.11n 2.4G Hz FCC-compliant wireless LAN
<b>C867VAE-POE-W-A-K9 Wireless Secure Router</b>	GE or multimode VDSL2/ADSL2+ over basic telephone service	2 GE + 3-port 10-/100-Mbps managed switch with integrated 1 port Power over Ethernet (PoE) 802.11n 2.4 GHz ETSI-compliant wireless LAN

### Features and Benefits

Table 2 lists the features and benefits of the Cisco 860VAE Series Routers.

**Table 2.** Features and Benefits of Cisco 860VAE Series Routers

Feature	Benefit
<b>Increased performance</b>	<ul style="list-style-type: none"> <li>• Performance that allows customers to take advantage of broadband network speeds while running secure, concurrent data, voice, and video services</li> </ul>

Feature	Benefit
<b>Security and quality of service (QoS) with secure routers</b>	<ul style="list-style-type: none"> <li>• IPsec and Easy VPN with 10 tunnels</li> <li>• BGP</li> <li>• MAC filtering and port security</li> <li>• QoS features that include LLQ and WFQ</li> <li>• NBAR and DiffServ</li> </ul>
<b>State-of-the-art xDSL</b>	<ul style="list-style-type: none"> <li>• State-of-the-art xDSL features as per the latest ADSL2+/VDSL2 standards</li> <li>• Improved interoperability vs. various DSL access multiplexers (DSLAMs) deployed at worldwide service providers</li> </ul>
<b>WAN diversity</b>	<ul style="list-style-type: none"> <li>• GE or DSL Multimode VDSL2 and ADSL 1, 2, and 2+</li> <li>• Multiple WAN options within the same box to allow consistent configuration across diverse deployments</li> </ul>
<b>Managed switch with GE and FE LAN ports</b>	<ul style="list-style-type: none"> <li>• Connection of multiple devices within a teleworker home or a small office, with the ability to designate a port as the network edge</li> <li>• VLANs that allow for secure segmentation of network resources</li> </ul>
<b>Wireless LAN</b>	<ul style="list-style-type: none"> <li>• 802.11n 2.4 GHz FCC- or ETSI-compliant WiFi</li> <li>• Cisco IOS® Software command-line interface (CLI) or web-based configuration with Admin/Guest role-based access.</li> </ul>
<b>CON/AUX port</b>	<ul style="list-style-type: none"> <li>• A single dual-purpose port that provides direct connection to a console or external modem for management or backup access point</li> </ul>
<b>Real-time clock</b>	<ul style="list-style-type: none"> <li>• 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</li> </ul>

## Why Upgrade to the New Cisco 860VAE ISRs?

Numerous compelling features are in the new Cisco 860VAE ISRs (Table 3).

**Table 3.** Comparison of Features Between New Cisco 860VAE ISRs and Older Cisco 860 Series Routers

Feature	Base Router 860VAE	Secure Router 860VAE K9	Secure Wireless Router 860VAE-W-K9	C860VAE Router
<b>WAN diversity</b>	1 GE ADSL2+ basic telephone service/ISDN VDSL2 over ISDN	1 GE ADSL2+ basic telephone service/ISDN VDSL2 over ISDN	1 GE ADSL2+ basic telephone service/ISDN VDSL2 over ISDN	1 GE ADSL2+ basic telephone service/ISDN
<b>LAN ports</b>	4 FE	4 FE + 1 GE	3 FE + 2 GE + 802.11n	3 FE + 2 GE
<b>Advanced security</b>	No	Yes	Yes	Yes
<b>QOS</b>	No	Yes	Yes	Yes
<b>Performance with services</b>	10 Mbps	10 Mbps	10 Mbps	10 Mbps
<b>Multimode VDSL2/ADSL2+ and industry-leading xDSL interoperability</b>	Yes	Yes	Yes	Yes
<b>Box appearance and form factor</b>	Compact metal body, fanless quiet, and home-friendly desktop form factor	Compact metal body, fanless quiet, and home-friendly desktop form factor	Compact metal body, fanless quiet, and home-friendly desktop form factor	Compact metal body, fanless quiet, and home-friendly desktop form factor

## Summary

Cisco 860VAE Series Integrated Services Routers combine increased network performance with advanced security to allow teleworkers to get the most from their broadband connections at a very affordable price. Cisco 860VAE Series Routers can be deployed at any small- or branch-office location, including standalone service orchestration points such as ATM machines or point-of-sale (POS) systems. With the Cisco 860VAE Series, service providers can take advantage of a solution that can be set up easily at a remote site and centrally managed across diverse deployment scenarios. The Cisco 860VAE Series provides excellent value by reducing operating

expenses (OpEx) and capital expenditures (CapEx) and hence the total cost of ownership (TCO) while providing the latest connectivity and security features.

## Product Specifications

### Cisco IOS Software Support

Table 4 lists the minimum Cisco IOS Software releases and the default Cisco IOS Software feature sets.

**Table 4.** Cisco IOS Software Releases and Default Cisco IOS Software Feature Sets

Models	Cisco IOS Software Image	Default Feature Set	First Cisco IOS Software Release
Cisco 866VAE and 867VAE	c860vae-ipbasek9-mz	IPBase	15.2(2)T or 15.1(4)M2
Cisco 866VAE-K9 and 867VAE-K9	c860vae-advsecurityk9-mz c860vae-advsecurityk9_npe-mz	Advanced Security	15.2(2)T or 15.1(4)M2
C866VAE-W and C867VAE-W	c860vae-w-advsecurityk9-mz	Advanced Security with Wireless	15.3(3)M
C867VAE	c860vae2-ipbasek9-mz	IPBase	15.6(3)M
C866VAE-K9 and C867VAE-K9	c860vae2-advseck9-mz	Advanced Security	15.6(3)M

### Cisco IOS Software IP Base Feature Set on Base Routers

Cisco 860VAE Base Routers support the IP Base features listed in Table 5.

**Table 5.** Cisco IOS Software Features on Cisco 860VAE Base Router Series: IP Base Feature Set

Feature	Description
<b>IP and IP services features</b>	<ul style="list-style-type: none"> <li>• Basic IP data connectivity including: <ul style="list-style-type: none"> <li>◦ IP multicast and IP routing</li> <li>◦ IPv6</li> </ul> </li> <li>• Routing Information Protocol Versions 1 and 2 (RIPv1 and RIPv2)</li> <li>• Network Address Translation (NAT)</li> <li>• Access control lists (ACLs)</li> <li>• Dynamic Host Configuration Protocol (DHCP) server, relay, and client</li> <li>• Dynamic Domain Name System (DNS)</li> <li>• DNS proxy and DNS spoofing</li> </ul>
<b>xDSL, ATM, and Ethernet in the First Mile (EFM)</b>	<ul style="list-style-type: none"> <li>• G.922.1 (G.dmt Annex A, B), T1.413 (ANSI)</li> <li>• G.992.3 and 5 (ADSL2/2+ Annex A, B, M)</li> <li>• G.993.2 (VDSL2)</li> <li>• ATM QoS, operations, administration, and maintenance (OAM), and loopback</li> <li>• Packet Transfer Mode (PTM)</li> <li>• TX ring adjustment</li> <li>• Point-to-Point Protocol over ATM (PPPoA)</li> <li>• PPP over Ethernet (PPPoE)</li> </ul>
<b>Switch features</b>	<ul style="list-style-type: none"> <li>• Auto Media Device In/Media Device Cross Over (MDI-MDX)</li> <li>• Five 802.1Q VLANs</li> </ul>
<b>IPv6 features</b>	<ul style="list-style-type: none"> <li>• IPv6 addressing architecture</li> <li>• IPv6 name resolution</li> <li>• IPv6 statistics</li> <li>• IPv6 translation: Transport packets between IPv6-only and IPv4-only endpoints (NAT-PT)</li> <li>• Internet Control Message Protocol Version 6 (ICMPv6)</li> <li>• IPv6 DHCP</li> </ul>
<b>Embedded management features</b>	<ul style="list-style-type: none"> <li>• Simple Network Management Protocol Version 3 (SNMPv3)</li> <li>• Secure Shell (SSH) Protocol with Secure HTTP (HTTPS)</li> <li>• Embedded Event Manager (EEM)</li> </ul>

Number of recommended users	10
-----------------------------	----

## Cisco IOS Software Advanced Security Feature Set on Secure Routers

Cisco 860VAE-K9 Secure Routers have the Advanced Security feature set (Table 6) in addition to the IP Base features (Table 5) supported in Cisco 860VAE Base Routers.

**Table 6.** Advanced Security Feature Set on Cisco 860VAE-K9 Secure Router Series

Feature	Description
<b>Security features</b>	Secure connectivity: <ul style="list-style-type: none"> <li>• Ten IPsec tunnels</li> <li>• Easy VPN/IPsec VPN</li> <li>• FlexVPN including Site-Site VPN on 860VAE-W and C860VAE* models</li> <li>• Firewall</li> <li>• Cloud Web Security (Scansafe) Connector</li> </ul>
<b>Routing and switching</b>	<ul style="list-style-type: none"> <li>• Border Gateway Protocol (BGP)</li> <li>• MAC Filtering</li> <li>• Port Security</li> <li>• IPv4 VRF-Lite (Support for 4 VRFs)</li> </ul>
<b>QoS features</b>	<ul style="list-style-type: none"> <li>• LLQ, WFQ</li> <li>• Class-Based WFQ (CBWFQ)</li> <li>• Policy-Based Routing (PBR)</li> <li>• Class-Based QoS MIB</li> <li>• Class of service (CoS)-to-differentiated services code point (DSCP) mapping</li> <li>• Network-Based Application Recognition (NBAR)</li> <li>• DiffServ</li> </ul>
<b>Embedded management features</b>	<ul style="list-style-type: none"> <li>• NetFlow</li> <li>• IP service-level agreement (IP SLA)</li> <li>• Web Services Management Agent</li> </ul>

\*C860VAE models include C866VAE-K9 and C867VAE-K9

## System Specifications

Table 7 lists the system specifications for the Cisco 860VAE Series Routers.

**Table 7.** System Specifications

Feature	Description
<b>DRAM</b>	<ul style="list-style-type: none"> <li>• 256 MB (nonwireless routers)</li> <li>• 512 MB (wireless routers)</li> <li>• 512MB ( For C867VAE, C866VAE-K9, C867VAE-K9)</li> </ul>
<b>Flash memory</b>	<ul style="list-style-type: none"> <li>• 56 MB for Cisco 866VAE-K9 and 867VAE-K9 Secure Routers</li> <li>• 64 MB for Cisco 866VAE and 867VAE Base Routers</li> <li>• 128 MB for C866VAE-W-K9 and C867VAE-W-K9 Secure Wireless Routers</li> <li>• 128MB for C867VAE, C866VAE-K9, C867VAE-K9 Routers</li> </ul>
<b>WAN</b>	<ul style="list-style-type: none"> <li>• Gigabit Ethernet or</li> <li>• Multimode VDSL2 and ADSL2/2+ over ISDN or</li> <li>• Multimode VDSL2 and ADSL2/2+ over basic telephone service</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>• Base routers: Managed 4-port 10/100BASE-T with autosensing MDI/MDX</li> <li>• Secure routers: 1 GE + 4-port 10/100BASE-T with autosensing MDI/MDX</li> <li>• Secure Wireless routers: 2 GE + 3-port 10/100BASE-T with autosensing MDI/MDX</li> <li>• Secure Wireless routers: 802.11n 2.4 GHz ETSI/FCC compliant</li> </ul>

Feature	Description
<b>Console or auxiliary port</b>	RJ-45
<b>Power over Ethernet</b>	1-port 15W PoE on C867VAE-POE-W-A-K9 SKU only
<b>USB</b>	<ul style="list-style-type: none"> <li>● One USB 2.0</li> <li>● USB port can be used for: <ul style="list-style-type: none"> <li>◦ USB flash memory 128 MB (MEMUSB-128FT), 256 MB (MEMUSB-256FT), and 1 GB (MEMUSB 1024FT)</li> <li>◦ Cisco IOS Software boot from USB</li> </ul> </li> </ul> <p><b>Note:</b> USB 2.0 port cannot be used for connecting external devices or as a console other than those specified at <a href="https://www.cisco.com/en/US/prod/collateral/modules/ps6247/product_data_sheet0900aecd80232473.html">https://www.cisco.com/en/US/prod/collateral/modules/ps6247/product_data_sheet0900aecd80232473.html</a>.</p>
<b>Physical dimensions and weight</b>	<p>Product dimensions, base routers (part numbers CISCO866VAE and CISCO867VAE):</p> <ul style="list-style-type: none"> <li>● 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)</li> </ul> <p>Product dimensions, secure routers (CISCO866VAE-K9 and CISCO867VAE-K9):</p> <ul style="list-style-type: none"> <li>● 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</li> <li>● Weight: 5.5 lb (2.5 kg) maximum</li> </ul>
<b>Power</b>	<p>Product power specifications:</p> <ul style="list-style-type: none"> <li>● AC input voltage: 100 to 240 VAC</li> <li>● Frequency: 50 to 60 Hz</li> <li>● Maximum output power: 60W</li> <li>● Output voltages: 12 VDC</li> </ul>
<b>Approvals and compliance</b>	<p>Emissions:</p> <ul style="list-style-type: none"> <li>● 47 CFR Part 15: 2006</li> <li>● CISPR22: 2005</li> <li>● EN300386: V1.3.3: 2005</li> <li>● EN55022: 2006</li> <li>● EN61000-3-2: 2000 [Inc amd 1 and 2]</li> <li>● EN61000-3-3: 1995 [+ amd 1: 2001]</li> <li>● ICES-003 Issue 4: 2004</li> <li>● KN 22: 2005</li> <li>● VCCI: V-3/2006.04</li> </ul> <p>Immunity:</p> <ul style="list-style-type: none"> <li>● CISPR24: 1997 [+ amd 1 and 2]</li> <li>● EN55024: 1998 [+ amd 1 and 2]</li> <li>● EN61000: 4-3, 4-6</li> <li>● AS/NZS 3548</li> <li>● CFR 47 Part 15 Class B</li> <li>● EN55022 Class B</li> </ul>
<b>Environmental operating range</b>	<ul style="list-style-type: none"> <li>● Nonoperating temperature: -4 to 149°F (-20 to 65°C)</li> <li>● Nonoperating humidity: 5 to 95% relative humidity (noncondensing)</li> <li>● Nonoperating altitude: 0 to 15,000 ft (0 to 4570m)</li> <li>● Operating temperature <ul style="list-style-type: none"> <li>◦ At sea level: 32 to 104°F (0 to 40°C)</li> <li>◦ Up 10,000 ft: 32 to 77°F (0 to 25°C)</li> <li>◦ Derating 2.7°F/10,000 ft (1.5°C/1000 ft)</li> </ul> </li> <li>● Operating humidity: 10 to 85% relative humidity (noncondensing)</li> <li>● Operating altitude: 0 to 10,000 ft (0 to 3000m)</li> </ul>

## DSL Specifications

Tables 8 through 11 list the DSL feature specifications and DSLAM interoperability support for the Cisco 860VAE Series Routers. For more information and details about DSLAM and line-card interoperability, please refer to the following document: [What Is Cisco ISR and ISR G2 xDSL Interoperability?](#)

The Cisco 860VAE Series interoperability should be on par with the Cisco 880VA Series ISRs.

**Table 8.** DSL Feature Specifications

DSL Specifications	
<b>Multimode DSL (VDSL2 and ADSL2 and 2+)</b>	<ul style="list-style-type: none"> <li>• Broadcom chipset</li> <li>• Dying gasp (Note: Dying Gasp is not assured on Annex M)</li> <li>• IEEE 802.1q VLAN tagging</li> </ul> <p>VDSL2:</p> <ul style="list-style-type: none"> <li>• ITU G.993.2 (VDSL2)</li> <li>• 997 and 998 band plans</li> <li>• VDSL2 profiles: 8a, 8b, 8c, 8d, 12a, 12b, and 17a</li> <li>• U0 band support (25–276 kHz)</li> <li>• Ethernet PTM mode only based on IEEE 802.3ah 64/65 octet encapsulation</li> <li>• DELT diagnostics mode</li> </ul> <p>ADSL2/2+:</p> <ul style="list-style-type: none"> <li>• 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+)</li> <li>• ADSL2+ over basic telephone service Annex M (for extended upstream bandwidth) for G.992.3 (ADSL2) and G.992.5 (ADSL2+)</li> </ul> <p><b>Note:</b> Annex M performance is not optimal over Annex A SKUs.</p> <ul style="list-style-type: none"> <li>• G.994.1 ITU G.hs Handshake Protocol</li> <li>• Reach-extended ADSL2 (G.922.3) Annex L for increased performance on loop lengths greater than 16,000 feet from central office</li> <li>• T1.413 ANSI ADSL DMT issue 2</li> <li>• DSL Forum TR-067 and TR-100 performance compliant</li> <li>• Impulse Noise Protection (INP) with Extended Framing Parameters</li> <li>• Downstream Power Back Off (DPBO)</li> <li>• Fixed Firmware solution for General deployments. No ability to upgrade the Firmware on the 860VAE models (applicable to all non-Wifi models)</li> </ul>

**Table 9.** 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

**Table 10.** ADSL over ISDN DSLAM Interoperability for Cisco 866VAE

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

**Table 11.** 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

## Ordering Information

Table 12 lists ordering information for the Cisco 860VAE Series. To place an order, visit the [Cisco ordering homepage](#) and refer to Table 12.

**Table 12.** Cisco 860VAE Series ISRs Ordering Information

Part Number	Product Name
<b>Multimode DSL (VDSL2 and ADSL2/2+)</b>	
<b>CISCO866VAE</b>	Cisco 866VAE Base Routers with VDSL2/ADSL2+ over ISDN
<b>CISCO866VAE-K9</b>	Cisco 866VAE Secure Routers with VDSL2/ADSL2+ over ISDN
<b>C866VAE-K9</b>	Cisco 866VAE Secure Routers with VDSL2/ADSL2+ over ISDN
<b>C866VAE-W-E-K9</b>	Cisco 866VAE Secure Wireless Routers with VDSL2/ADSL2+ over ISDN with 802.11n 2.4 GHz, ETSI complaint
<b>CISCO867VAE</b>	Cisco 867VAE Base Router with VDSL2/ADSL2+ over basic telephone service
<b>C867VAE</b>	Cisco 867VAE Base Router with VDSL2/ADSL2+ over basic telephone service
<b>CISCO867VAE-K9</b>	Cisco 867VAE Secure Router with VDSL2/ADSL2+ over basic telephone service
<b>C867VAE-K9</b>	Cisco 867VAE Secure Router with VDSL2/ADSL2+ over basic telephone service
<b>C867VAE-W-E-K9</b>	Cisco 867VAE Secure Wireless Router with VDSL2/ADSL2+ over basic telephone service with 802.11m 2.4G Hz, ETSI compliant
<b>C867VAE-W-A-K9</b>	Cisco 867VAE Secure Wireless Router with VDSL2/ADSL2+ over basic telephone service with 802.11m 2.4G Hz, FCC compliant
<b>C867VAE-POE-W-A-K9</b>	Cisco 867VAE Secure Wireless Router with VDSL2/ADSL2+ over basic telephone service with 802.11m 2.4G Hz, FCC with PoE
<b>Cisco IOS Software for Cisco 860VAE</b>	
<b>S860ASK9</b> <b>c860vae-advsecurityk9-mz</b>	Cisco 860VAE Series IOS Advanced Security only for 860VAE Secure Router
<b>S860ASNK9</b> <b>c860vae-advsecurityk9_npe-mz</b>	Cisco 860VAE Series IOS Advanced Security with No Payload Encryption only for 860VAE Secure Router
<b>S860IPBK9</b> <b>c860vae-ipbasek9-mz</b>	Cisco 860VAE Series IOS IP Base only for 860VAE Base Routers
<b>S860WAK9</b> <b>c860vae-advsecurityk9-mz</b>	Cisco 860VAE Series IOS Advanced Security only for 860VAE Secure Wireless Router
<b>S860WANK9</b> <b>C860vae-advsecurityk9-mz</b>	Cisco 860VAE Series IOS Advanced Security with No Payload Encryption only for 860VAE Secure Wireless Router



Part Number	Product Name
<b>SC860ASK9**</b> <b>c860vae2-advseck9-mz</b>	Cisco 860VAE Series IOS Advanced Security only for C860VAE Secure Router
<b>SC860ASNK9**</b> <b>c860vae2-advseck9_npe-mz</b>	Cisco 860VAE Series IOS Advanced Security with No Payload Encryption only for C860VAE Secure Router
<b>SC860IPBK9***</b> <b>c860vae2-ipbasek9-mz</b>	Cisco 860VAE Series IOS IP Base only for C860VAE Base Routers

\*\* Applicable to the newer C866VAE-K9 and C867VAE-K9 models

\*\*\* Applicable to the newer C867VAE model

## Cisco Services for the Branch Office

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, please visit <https://www.cisco.com/go/services>.

## Warranty Information

Warranty information is available on Cisco.com at the [Product Warranties](#) page.

## 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.](#)



Americas Headquarters  
Cisco Systems, Inc.  
San Jose, CA

Asia Pacific Headquarters  
Cisco Systems (USA) Pte. Ltd.  
Singapore

Europe Headquarters  
Cisco Systems International BV Amsterdam,  
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)