

Cisco 1000 Series Integrated Services Routers

Cisco® 1000 Series Integrated Services Routers (ISRs) with Cisco IOS® XE Software combine WAN, comprehensive security, and wired and wireless access in a single, high-performance platform.

The Cisco 1000 Series is well suited for deployment in small and medium-sized enterprise branch offices.

Figure 1. Cisco 1100-8P ISR, back and front views



Figure 2. Cisco 1100-4P ISR, back and front views

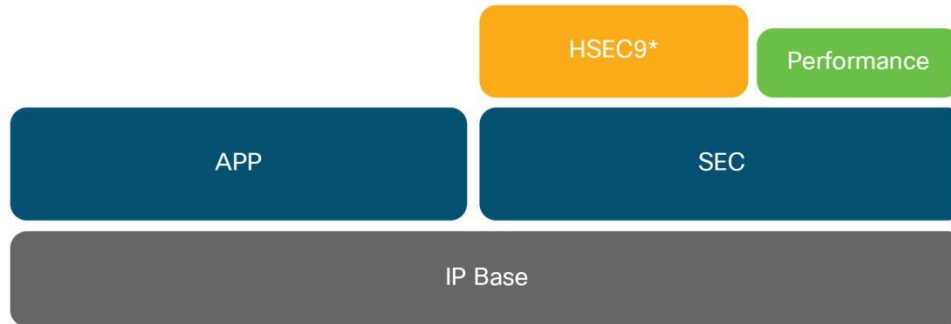


Cisco IOS Software licensing and packaging

Universal Cisco IOS XE image

A single Cisco IOS XE Universal image encompassing all functions is delivered with the platform. Advanced features can be enabled simply by activating a software license on the Universal image. Technology packages and feature licenses, enabled through right-to-use licenses, simplify software delivery and decrease the operational costs of deploying new features.

Figure 3. Available technology licenses



* Available from IOS XE 16.7.1

Four major technology licenses are available on the 1000 Series; these licenses can be activated through the Cisco software activation process described at <https://www.cisco.com/c/en/us/products/ios-nx-os-software/ios-software-activation/index.html>. The following licenses are available:

- IP Base: This technology package is the default.
- Application Experience (APP): This license includes data and application performance features.
- Security (SEC) or Security with No Payload Encryption (SEC-NPE): This license includes features for securing network infrastructure.
- IP Security (IPSEC): This license includes features that improve IP security performance multifold.

Ordering the Cisco 1000 Series ISRs

Please note, regarding PID naming below: for WWAN LTE Advanced Mobility - “LTEEA” applies to EMEAR and North America and “LTELA” applies to APAC and LATAM.

For WLAN Wave 2 802.11ac Mobility country domain reference:

<https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html>

Table 1 gives the SKUs for the DLS and LTE Advanced models. Table 2 gives the SKUs for the DSL and Wave 2 Wi-Fi models. Table 3 gives the SKUs for the DSL, LTE Advanced, and Wave 2 Wi-Fi models. Table 4 gives the SKUs for the licenses, Table 5 lists the product part numbers and software images, and Table 6 lists the Small Form-Factor Pluggable (SFP) modules supported.

Table 1. Cisco 1000 Series ISRs DSL and LTE Advanced SKUs

Model	WAN				Wi-Fi	LAN switch			Integrated USB 3.0
	GE	GE/SFP combo	ADSL2/VDSL2+	LTE Advanced (CAT6)	802.11ac	GE	PoE	PoE+	AUX/console
C1111-8P	1	1	–	–	–	8	4	2	Yes
C1111-4P	1	1	–	–	–	4	2	1	Yes
C1116-4P	–	1	1 VA-DSL (Annex B/J)	–	–	4	2	1	Yes
C1117-4P	–	1	1 VA-DSL (Annex A)	–	–	4	2	1	Yes

Model	WAN				Wi-Fi	LAN switch			Integrated USB 3.0
	GE	GE/SFP combo	ADSL2/VDSL2+	LTE Advanced (CAT6)	802.11ac	GE	PoE	PoE+	AUX/console
C1117-4PM	–	1	1 VA-DSL (Annex M)	–	–	4	2	1	Yes
C1111-8PLTEEA	1	1	–	1 EMEAR & North America	NA	8	4	2	Yes
C1111-8PLTELA	1	1	–	1 LATAM & APAC	NA	8	4	2	Yes
C1111-4PLTEEA	1	1	–	1 EMEAR & North America	NA	4	2	1	Yes
C1111-4PLTELA	1	1	–	1 LATAM & APAC	NA	4	2	1	Yes
C1116-4PLTEEA	–	1	1 ADSL2/VDSL2+ (Annex B/J)	1 EMEAR & North America	NA	4	2	1	Yes
C1117-4PLTEEA	–	1	1 ADSL2/VDSL2+ (Annex A)	1 EMEAR & North America	NA	4	2	1	Yes
C1117-4PLTELA	–	1	1 ADSL2/VDSL2+ (Annex A)	1 LATAM & APAC	NA	4	2	1	Yes
C1117-4PMLTEEA	–	1	1 ADSL2/VDSL2+ (Annex M)	1 EMEAR & North America	NA	4	2	1	Yes

Table 2. Cisco 1000 Series ISRs DSL and Wave 2 Wi-Fi SKUs

Model	WAN				Wi-Fi	LAN switch			Integrated USB 3.0
	GE	GE/SFP combo	ADSL2/VDSL2+	LTE Advanced (CAT6)	Wave 2 802.11ac	GE	PoE	PoE+	AUX/console
C1111-8PWEE	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWB	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWA	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWZ	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWN	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWQ	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWH	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWR	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-8PWF	1	1	–	–	2X2 MIMO	8	4	2	Yes
C1111-4PWEE	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWB	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWA	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWZ	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWN	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWQ	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWH	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWR	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWF	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1111-4PWD	1	1	–	–	2X2 MIMO	4	2	1	Yes
C1117-4PWEE	–	1	1 ADSL2/VDSL2+ (Annex A)	–	2X2 MIMO	4	2	1	Yes

Model	WAN				Wi-Fi	LAN switch			Integrated USB 3.0
	GE	GE/SFP combo	ADSL2/VDSL2+	LTE Advanced (CAT6)	Wave 2 802.11ac	GE	PoE	PoE+	AUX/console
C1117-4PWA		1	1 ADSL2/VDSL2+ (Annex A)	–	2X2 MIMO	4	2	1	Yes
C1117-4PWZ		1	1 ADSL2/VDSL2+ (Annex A)	–	2X2 MIMO	4	2	1	Yes
C1117-4PMWE		1	1 ADSL2/VDSL2+ (Annex M)	–	2X2 MIMO	4	2	1	Yes

Table 3. Cisco 1000 Series ISRs LTE Advanced, Wave 2 Wi-Fi, and DSL SKUs

Model	WAN				Wi-Fi	LAN switch			Integrated USB 3.0
	GE	GE/SFP combo	ADSL2/VDSL2+	LTE Advanced (CAT6)	Wave 2 802.11ac	GE	PoE	PoE+	AUX/console
C1111-8PLTEEAWE	1	1	–	1 EMEAR & North America	2X2 MIMO	8	4	2	Yes
C1111-8PLTEEAWB	1	1	–	1 EMEAR & North America	2X2 MIMO	8	4	2	Yes
C1111-8PLTEEAWA	1	1	–	1 EMEAR & North America	2X2 MIMO	8	4	2	Yes
C1111-8PLTEEAWR	1	1	–	1 EMEAR & North America	2X2 MIMO	8	4	2	Yes
C1111-8PLTELAWZ	1	1	–	1 LATAM & APAC	2X2 MIMO	8	4	2	Yes
C1111-8PLTELAWN	1	1	–	1 LATAM & APAC	2X2 MIMO	8	4	2	Yes
C1111-8PLTELAWQ	1	1	–	1 LATAM & APAC	2X2 MIMO	8	4	2	Yes
C1111-8PLTELAWH	1	1	–	1 LATAM & APAC	2X2 MIMO	8	4	2	Yes
C1111-8PLTELAWF	1	1	–	1 LATAM & APAC	2X2 MIMO	8	4	2	Yes
C1111-8PLTELAWD	1	1	–	1 LATAM & APAC	2X2 MIMO	8	4	2	Yes
C1116-4PLTEEAWE	–	1	1 ADSL2/VDSL2+ (ISDN)	1 EMEAR & North America	2X2 MIMO	4	2	1	Yes
C1117-4PMLTEEA	–	1	1 ADSL2/VDSL2+ (POTS)	1 EMEAR & North America	2X2 MIMO	4	2	1	Yes
C1117-4PLTEEAWE	–	1	1 ADSL2/VDSL2+ (POTS)	1 EMEAR & North America	2X2 MIMO	4	2	1	Yes
C1117-4PLTEEAWA	–	1	1 ADSL2/VDSL2+ (POTS)	1 EMEAR & North America	2X2 MIMO	4	2	1	Yes
C1117-4PLTELAWZ	–	1	1 ADSL2/VDSL2+ (POTS)	1 LATAM & APAC	2X2 MIMO	4	2	1	Yes
C1117-4PMLTEEAWE	–	1	1 ADSL2/VDSL2+ (POTS) Annex M	1 EMEAR & North America	2X2 MIMO	4	2	1	Yes

Table 4. Cisco 1000 Series licenses

Part number	Bundles	Features
SL-1100-8P-IPB SL-1100-4P-IPB	IP Base (default)	Routing protocols, ACL, NAT, QoS, BFD, VRF
SL-1100-8P-APP(=) SL-1100-4P-APP(=)	Application Experience (APP)	IP Base + advanced networking protocols: L2TPv3, MPLS Application Experience: Pfrv3, NBAR2, AVC, IP SLA Initiator, PMIPv6, Mobile IP. Hybrid Cloud Connectivity: LISP, Virtual Private LAN Services (VPLS), Ethernet over MPLS.
SL-1100-8P-SEC(=) SL-1100-8P-SECNPE(=) SL-1100-4P-SEC(=) SL-1100-4P-SECNPE(=)	Security (SEC)	IP Base + Advanced Security: Zone-based firewall, IPsec VPN, EzVPN, Dynamic Multipoint VPN (DMVPN), GETVPN, FlexVPN.
FL-VPERF-4P-100(=) FL-VPERF-8P-200(=)	Performance (VPER)	IPsec Performance: Additional 100 Mbps for ISR 1100-4P and 200 Mbps for ISR 1100-8P.
FL-1100-8P-HSEC(=) FL-1100-4P-HSEC(=)	High Performance Security (HSEC)	High IPsec maximum performance security.
C1F1PISR1100S8PK9 C1F1PISR1100S4PK9	Cisco ONE™ Software Bundle	APP, SEC, PRIME licenses (SL-1100-8P-IPB, C1-SL-1100-8P-APP, C1-SL-1100-8P-SEC or C1-SL-1100-8P-SECNPE, C1-PI-LFAS-ISR-K9, C1F1VISR1100S8P-01, C1-SL-1100-PAK) or (SL-1100-4P-IPB, C1-SL-1100-4P-APP, C1-SL-1100-4P-SEC or C1-SL-1100-4P-SECNPE, C1-PI-LFAS-ISR-K9, C1F1VISR1100S4P-01, C1-SL-1100-PAK).

Table 5. Product part numbers and software images

Product part number	Description
Router software images	
SISR1100UK9-166(=)	Cisco 1000 Series ISR Universal image and Non-Payload Encryptions image.
SISR1100NPEUK9-166(=)	
Access point software images	
SW1815I-MECPWP-85	[File Name: AIR-AP1815-K9-ME-8-5-100-0.tar] Cisco 1000 Series AP delivers industry-leading wireless performance with support for the latest Wi-Fi standard, IEEE's 802.11ac Wave 2 and Mobility Express.
DSL firmware options	
FW-VA-1117-39T	[File Name: A2pvbF039t.d26d] Annex A & M.
FW-VA-1116-39G1	[File Name: B2pv6F039g1.d26d] Annex B & J.
Cisco Umbrella™ Security Services	
UMB-BRAN-1100	Umbrella Branch subscription license for Cisco 1000 Series ISR (per router).
UMB-INSIGHTS-K9	Umbrella Insights for branch security and intelligent proxy (per user).
Power over Ethernet options	
ISR-1100-POE2(=)	1100-4P with 115W PSU (2 PoE or 1 PoE+). PWR-115W-AC.
ISR-1100-POE4(=)	1100-8P with 125W PSU (4 PoE or 2 PoE+). PWR-125W-AC.
Rack mount kit	
ACS-1100-RM-19(=)	Rack-mount kit for all 1000 Series ISRs.

Table 6. List of SFP modules supported

SFP module	ISR 1100 8P	ISR 1100 4P	Description
GLC-EX-SMD	Yes	Yes	1000BASE-EX SFP transceiver module, SMF, 1310nm, DOM.
GLC-LH-SMD	Yes	Yes	GE SFP, LC connector LX/LH transceiver; with DOM.
GLC-SX-MMD	Yes	Yes	GE SFP, LC connector SX transceiver; with DOM.
GLC-ZX-SMD	Yes	Yes	1000BASE-ZX SFP; with DOM.
GLC-FE-100ZX	Yes	Yes	100BASE-ZX SFP (80km).
GLC-GE-100FX	Yes	Yes	100FX SFP on GE ports.
GLC-BX-D	Yes	Yes	1000BASE-BX SFP, 1490NM.
GLC-BX-U	Yes	Yes	1000BASE-BX SFP, 1310NM.

Figure 4. CCW License Ordering Screenshot

Optional Selections: Cisco ONE, IOS Technology Packages, IOS Features, Network PNP License (Free, recommended for PnP deployment) are available to select from.

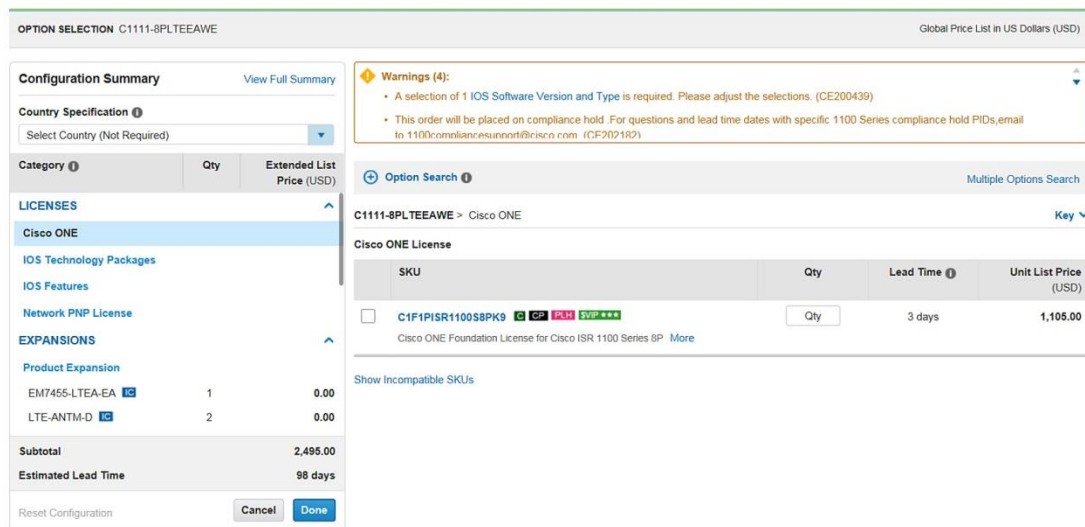


Figure 5. CCW Software and Firmware Ordering Screenshot

Mandatory Selections:

- IOS Software Version and Type (16.7.X is required with HSEC license) must be selected.
- Firmware is required for LTE Advanced (LTEEA or LTELA PID, customer can switch and change in the field), if it's XDSL PID, customer will need to pick the right XDSL firmware option.

Optional Selection: PoE Module selection is available.

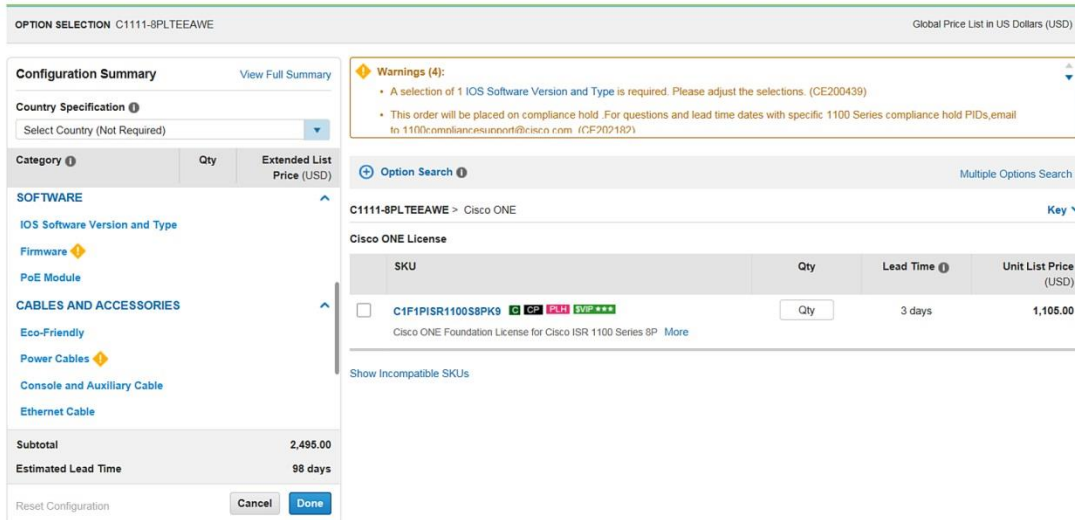
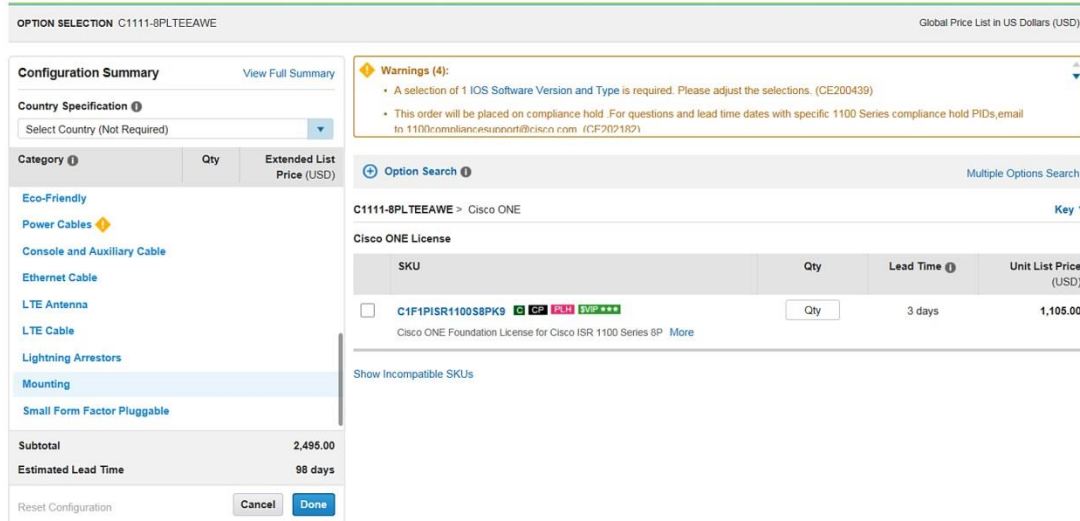


Figure 6. CCW Cable and Accessories Ordering Screenshot

Mandatory Selection: All other Cables and Accessories are optional, but Power Cables must be selected.



For additional information and details about Cisco IOS Software licensing and packaging on the Cisco 1000 Series, please visit: <https://www.cisco.com/c/en/us/support/routers/1100-series-integrated-services-routers-isr/products-licensing-information-listing.html>.

For Cisco 1000 Series ISR hardware and software installation guides, please visit:

- <https://www.cisco.com/c/en/us/support/routers/1100-series-integrated-services-routers-isr/products-installation-and-configuration-guides-list.html>.
- <https://www.cisco.com/c/en/us/td/docs/routers/access/interfaces/software/feature/guide/ehwic-4g-ltesw-book.html>.

Cisco and partner services

Services from Cisco and our certified partners can help you reduce the cost and complexity of branch-office deployments. Cisco Smart Net Total Care™ technical support for the Cisco 1000 Series ISRs is available on a one-time or annual contract basis. Support options range from help-desk assistance to proactive, onsite consultation.

For more information, visit <https://www.cisco.com/c/en/us/services/overview.html>.

Ordering information

To place an order, visit the Cisco Ordering Home Page. To download software, visit the Cisco Software Center.

For more information

For more information about the Cisco 1000 Series ISRs, visit <https://www.cisco.com/c/en/us/products/routers/1000-series-integrated-services-routers-isr/index.html> or contact your local Cisco account representative.

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 <https://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: <https://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)