

# Cisco 1000 Series Integrated Services Routers

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Cisco® 1100 Series Integrated Services Routers (ISRs) with Cisco IOS® XE Software combine Internet access, comprehensive security, and wireless services (LTE Advanced 3.0 wireless WAN and 802.11ac wireless LAN) in a single, high-performance device. The routers are easy to deploy and manage, with cutting-edge, scalable, multicore separate data and control plane capabilities.

The Cisco 1100 Series ISRs are well suited for deployment as Customer Premises Equipment (CPE) in enterprise branch offices, in service provider managed environments as well as smaller form factor and M2M use cases.

**Note:** Not all 1100 series SKU variants are available in every region with different technologies (check on CCW pricelist for your region).



**Figure 1.**  
Cisco 1100 Product Family Series



**Figure 2.**  
Cisco 1100-8P ISR with LTE Advanced, Back and Front View



**Figure 3.**  
Cisco 1100-4P ISR with DSL, Back and Front View



Figure 4.  
Cisco 1101-4P and 1101-4PLTEP with LTE Advanced Pluggable



Figure 5.  
Cisco 1109-2PLTE with fixed CAT4 LTE



Figure 6.  
Cisco 1109-4PLTE2P with dual LTE pluggable and 802.11ac Wi-Fi options (Available late January, 2019)

Figure 7.  
Cisco 1120 and 1160 with LTE pluggable and 802.11ac Wi-Fi options (Available late June, 2019)

## Primary Features and Benefits

Table 1. Business Benefits

| Business need  | Features/description   |
|--|--|
| Lightweight, compact size with low power consumption   | <ul style="list-style-type: none"> <li>Can be deployed in many different environments where space, heat dissipation, and low power consumption are critical factors (Including Cisco Pluggable smaller form factor technology).</li> </ul>   |
| High performance to run concurrent services  | <ul style="list-style-type: none"> <li>High performance allows customers to take advantage of broadband network speeds while running secure, concurrent data, voice, video, and wireless services. C1160 Models will have +25% better overall performance</li> </ul>   |
| High availability and business continuity  | <ul style="list-style-type: none"> <li>Redundant WAN connections for failover protection and load balancing.</li> <li>Dynamic failover protocols such as Virtual Router Redundancy Protocol (VRRP; RFC 2338), Hot Standby Router Protocol (HSRP), and Multigroup HSRP (MHSRP).</li> </ul>  |
| Consistent, high application performance levels  | <ul style="list-style-type: none"> <li>The router can run multiple services simultaneously with minimal performance degradation.</li> </ul>  |
| Risk mitigation with multilevel security   | <ul style="list-style-type: none"> <li>Network perimeter security with integrated application inspection firewall.</li> <li>Data privacy through high-speed IP Security (IPsec) Triple Data Encryption Standard (3DES), and Advanced Encryption Standard (AES) encryption.</li> <li>High-performance VPNs: DMVPN, FlexVPN, GETVPN.</li> <li>Encrypted Traffic Analytics (ETA) to identify malware communications in encrypted traffic using passive monitoring, extraction of relevant data elements, and supervised machine learning with cloud-based global visibility.</li> <li>Cisco Umbrella™ is a cloud security platform that provides the first line of defense against threats on the internet wherever users go.</li> <li>Security hardware acceleration.</li> <li>Trustworthy systems with Field-Programmable Gate Array (FPGA) and hardware anchor.</li> </ul> |
| Unified control of wired and wireless networks from a common console for streamlined operations              | <ul style="list-style-type: none"> <li>Simplifies and centralizes configuration and management of wireless and wireline devices. Supports WLAN services without requiring a wireless LAN controller.</li> <li>Supports Mobility Express for WLAN-enabled routers.</li> </ul>   |
| Remote configuration and management to keep local IT staff lean  | <ul style="list-style-type: none"> <li>Supports separate console and USB ports. Can be configured to work with optional USB token.</li> <li>Supports TR-069.</li> </ul>  |
| <b>Performance</b> <ul style="list-style-type: none"> <li>Throughput</li> <li>Service reliability</li> </ul> | <ul style="list-style-type: none"> <li>ISR 1100 can provide encrypted traffic performance greater than 350 Mbps.</li> <li>A distributed multicore architecture with the dedicated control plane and service plane.</li> <li>Remote installation of application-aware services that run identically to their counterparts in dedicated appliances (Future roadmap).</li> </ul>  |
| Lower WAN expenditures   | <ul style="list-style-type: none"> <li>Cisco Software-Defined WAN (SD-WAN) support for optimized WAN connection.</li> <li>Smaller form factor and Cisco Pluggable technology provide additional protection investment and flexibility.</li> </ul>  |
| Pay as you grow: IPsec performance upgrade model   | <ul style="list-style-type: none"> <li>Router IPsec capacity can be increased with a remote performance-on-demand license upgrade (no hardware upgrade) for exceptional savings and CapEx budget management.</li> </ul>  |
| IT consolidation, space savings, and improved Total Cost of Ownership (TCO)                                  | <ul style="list-style-type: none"> <li>Single converged branch platform integrates routing, switching, security, and performance management capabilities.</li> </ul>   |
| Business continuity and increased resiliency   | <ul style="list-style-type: none"> <li>The entire 1100 Series supports Power over Ethernet (PoE) and PoE+ power to endpoints (Not available on C1101 and C1109 smaller form factor series).</li> </ul>   |

**Table 2.** Support for Software-Defined WAN on ISR 1100

Cisco SD-WAN offers an entirely new way to manage and operate your WAN infrastructure. Cisco SDWAN is a cloud delivered architecture that offers secure, flexible and rich services with the following key benefits:

| Cisco SD-WAN                      | Cisco SD-WAN capability can be enabled on ISR 1100 platform   |
|-----------------------------------|---|
| <b>Better user experience</b>     | <ul style="list-style-type: none"> <li>The ability to deploy applications in minutes, on any platform, with a consistent user experience. Deliver predictable performance for applications residing in the data center or in the cloud.</li> </ul>              |
| <b>Greater agility</b>            | <ul style="list-style-type: none"> <li>Faster, easier deployment and operation of your WAN, and get faster performance using less bandwidth. Add new revenue generating services in minutes not months.</li> </ul>  |
| <b>Advanced threat protection</b> | <ul style="list-style-type: none"> <li>Securely connect your users to applications in minutes and protect your data from the WAN edge to the cloud. Secure segmentation for critical assets and multi-layer, robust security that encrypts all data.</li> </ul> |

IOS XE SD-WAN software enables important steps towards IBN for WAN, i.e.

- Centralized management and operational simplicity
- Secure connectivity on the hybrid WAN
- Optimized access to SaaS and Public Cloud
- Predictable Application Quality of Experience with policy-based automation

## Platform Architecture and Capabilities

**Table 3.** Architectural Highlights

| Architectural feature   | Benefits/description  |
|---|---|
| <b>Multicore processors</b>                                     | <ul style="list-style-type: none"> <li>High-performance multicore processors support high-speed WAN connections. The data plane uses a flow processor that delivers Application-Specific Integrated Circuit (ASIC)-like performance that does not degrade as services are added.</li> </ul>   |
| <b>Embedded IPsec VPN hardware acceleration</b>                 | <ul style="list-style-type: none"> <li>Increases scalability when combined with an optional Cisco IOS XE Software Security license, enables WAN link security and VPN services.</li> </ul>  |
| <b>Integrated Gigabit Ethernet ports</b>                        | <ul style="list-style-type: none"> <li>Provides up to 10 built-in 10/100/1000 Ethernet ports for WAN or LAN (1100-8P: 2 WAN and 8 LAN ports, 1100-4P: 2 WAN and 4 LAN ports, 1101-4P: 1WAN and 4 LAN ports, 1109-2P M2M: 1 WAN and 2 LAN ports, and 1109-4P M2M: 1 WAN and 4 LAN).</li> <li>All 1100-8P and 1100-4P platforms model have one 10/100/1000 Ethernet port that can support Small Form-Factor Pluggable (SFP)-based connectivity in addition to RJ-45 connections, enabling fiber or copper connectivity.</li> <li>Depending on the platform, PoE/PoE+ can be enabled on Gigabit Ethernet interfaces (4 PoE or 2 PoE+ ports on the 1100-8P and 2 PoE or 1 PoE+ ports on the 1100-4P), to provide power to external devices such as video endpoints and 802.11ac access points (Not available on C1101 and C1109 M2M smaller form factor models).</li> <li>Smaller form factor 1101-4P and 1109-4P with Cisco WAN LTE Pluggable technology option. Additional WAN options such as Cisco 12:1 High Speed Serial Pluggable.</li> <li>An additional dedicated Gigabit Ethernet port is provided for device management.</li> </ul> |
| <b>USB-based console access</b>                                 | <ul style="list-style-type: none"> <li>A mini type B USB console port supports management connectivity when traditional serial ports are not available. Traditional console port are also available.</li> </ul>   |
| <b>Optional integrated power supply for distribution of PoE</b> | <ul style="list-style-type: none"> <li>An optional upgrade to the internal power supply provides inline power (802.3af-compliant PoE or 802.3at-compliant PoE+) to integrated switch modules based on the external power supply selected.</li> <li>PoE conversion capability provides an additional layer of fault tolerance (Not available on C1101 and C1109 M2M smaller form factor models).</li> </ul>  |
| <b>Flash memory support</b>                                     | <ul style="list-style-type: none"> <li>The 1100 Series ISRs ship with a fixed 4GB flash memory.</li> <li>USB type A 3.0 ports provide capabilities for convenient storage.</li> </ul>   |

| Architectural feature | Benefits/description   |
|-----------------------|--|
| DRAM                  | <ul style="list-style-type: none"> <li>The 1100 Series comes with 4 GB fixed DRAM. C1111X-8P has 8 GB fixed DRAM for advanced SD-WAN security features.</li> </ul> |

Table 4. Network Management Solutions

| Operational phase  | Application  | Description  |
|--|--|--|
| Device staging and configuration   | WebUI  | <ul style="list-style-type: none"> <li>A GUI-based device-management tool for Cisco IOS and Cisco IOS XE Software-based access routers. This tool simplifies routing, firewall, VPN, unified communications, and WAN and LAN configuration through easy-to-use wizards.</li> </ul>   |
| Networkwide deployment, configuration, monitoring, and troubleshooting   | Cisco Prime <sup>®</sup> Infrastructure                            | <ul style="list-style-type: none"> <li>Offers comprehensive lifecycle management of wired and wireless access, campus, and branch-office networks; rich visibility into enduser connectivity; and application performance assurance.</li> <li>Provides wired lifecycle functions such as inventory, configuration, and image management; automated deployment; compliance reporting; integrated best practices; and reporting.</li> </ul>  |
| Context-aware security configuration and monitoring  | Cisco Prime Security Manager                                       | <ul style="list-style-type: none"> <li>Management tool for configuring and managing context-aware security. The application supports both single- and multidevice manager form factors.</li> <li>Provides the ability to write and enforce granular context-aware security policies.</li> </ul>  |
| Digitalized applications to become inherently network-aware and Application Policy Infrastructure Controller Enterprise Module | Cisco Digital Network Architecture (Cisco DNA Center) with APIC-EM | <ul style="list-style-type: none"> <li>Cisco DNA centers around a network infrastructure that is not only fully programmable and open to third-party innovation, but can also fully and seamlessly integrate the cloud as an infrastructure component.</li> <li>The Cisco DNA controller facilitates simple, automated and programmatic deployment of network services. It brings the notion of user- and application-aware policies into the foreground of network operations.</li> <li>With Cisco DNA, the network can provide continuous feedback to simplify and optimize network operations.</li> <li>Automate network configuration and setup APIC-EM is a central part of Cisco Digital Network Architecture. It delivers software-defined networking to the enterprise branch, campus, and WAN.</li> </ul> |

Table 5. Embedded Management Capabilities

| Feature  | Description  |
|--|--|
| Cisco IOS Embedded Event Manager (EEM)             | <ul style="list-style-type: none"> <li>A distributed and customized approach to event detection and recovery.</li> <li>Offers the ability to monitor events and take informational, corrective, or any desired EEM action when the monitored events occur or when a threshold is reached.</li> </ul> |
| Cisco IOS XE IP Service-Level Agreements (IP SLAs) | <ul style="list-style-type: none"> <li>Helps assure the performance of new business-critical IP applications as well as IP services that use data and voice in an IP network.</li> </ul>   |

| Feature  | Description   |
|--|---|
| Simple Network Management Protocol (SNMP), Remote Monitoring (RMON), syslog, NetFlow, IP Flow Information Export (IPFix) | <ul style="list-style-type: none"> <li>Network monitoring and accounting tools. Enhanced 3G MIB with 4G MIB extension.</li> </ul>   |
| LTE network management and diagnostics   | <ul style="list-style-type: none"> <li>In-band and out-of-band management using Telnet (Cisco IOS XE Software Command Line Interface [CLI]) and SNMP, including MIB II and other extensions.</li> <li>Industry-standard LTE diagnostics and monitoring tools (Qualcomm CDMA Air Interface Tester [CAIT] and Spirent Universal Diagnostic Monitor [UDM]).</li> </ul> |

Table 6. Software Features and Protocols

| Feature                  | Description  |
|--------------------------|--|
| Protocols                | IPv4, IPv6, static routes, Routing Information Protocol Versions 1 and 2 (RIP and RIPv2), Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP), BGP Router Reflector, Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group Management Protocol Version 3 (IGMPv3), Protocol Independent Multicast Sparse Mode (PIM SM), PIM Source-Specific Multicast (SSM), Resource Reservation Protocol (RSVP), Cisco Discovery Protocol, Encapsulated Remote Switched Port Analyzer (ERSPAN), Cisco IOS IP Service-Level Agreements (IPSLA), Call Home, Cisco IOS Embedded Event Manager (EEM), Internet Key Exchange (IKE), Access Control Lists (ACL), Ethernet Virtual Connections (EVC), Dynamic Host Configuration Protocol (DHCP), Frame Relay (FR), DNS, Locator ID Separation Protocol (LISP), Hot Standby Router Protocol (HSRP), RADIUS, Authentication, Authorization, and Accounting (AAA), Application Visibility and Control (AVC), Distance Vector Multicast Routing Protocol (DVMRP), IPv4-to-IPv6 Multicast, Multiprotocol Label Switching (MPLS), Layer 2 and Layer 3 VPN, IPsec, Layer 2 Tunneling Protocol Version 3 (L2TPv3), Bidirectional Forwarding Detection (BFD), IEEE 802.1ag, and IEEE 802.3ah. |
| Encapsulations           | Generic Routing Encapsulation (GRE), Ethernet, 802.1q VLAN, Point-to-Point Protocol (PPP), Multilink Point-to-Point Protocol (MLPPP), Frame Relay, Multilink Frame Relay (MLFR) (FR.15 and FR.16), High-Level Data Link Control (HDLC), Serial (RS-232, RS-449, X.21, V.35, and EIA-530), and PPP over Ethernet (PPPoE).   |
| Traffic management       | Quality of Service (QoS), Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Hierarchical QoS, Policy-Based Routing (PBR), Performance Routing (Pfr), and Network-Based Application Recognition (NBAR).  |
| Cryptographic algorithms | Encryption: DES, 3DES, AES-128 or AES-256 (in CBC and GCM modes).<br>Authentication: RSA (748/1024/2048 bit), ECDSA (256/384 bit); Integrity: MD5, SHA, SHA-256, SHA-384, SHA-512.   |



## Product Specifications

Table 7. Cisco 1100 Series ISRs DSL and LTE SKUs

| Model  | WAN |              |                                    |                               | Wi-Fi    | LAN switch |             |    | Integrated USB 3.0 console | Pluggable  |
|--|-----|--------------|------------------------------------|-------------------------------|----------|------------|-------------|----|----------------------------|--|
|  | GE  | GE/SFP combo | ADSL2/VDSL2 + or G.FAST or G.SHDSL | LTE Advanced (CAT6)           | 802.11ac | GE         | PoE or PoE+ |    |                            |  |
| C1101-4P   | 1   | NA           | NA                                 | NA                            | NA       | 4          | NA          | NA | Yes                        | NA   |
| C1109-2PLTEVZ  | 1   | NA           | NA                                 | NA                            | NA       | 2          | NA          | NA | Yes                        | Embedded builtin same CAT4 LTE technology as P-LTE-VZ    |
| C1109-2PLTEUS  | 1   | NA           | NA                                 | NA                            | NA       | 2          | NA          | NA | Yes                        | Embedded builtin same CAT4 LTE technology as P-LTE-US    |
| C1109-2PLTEGB  | 1   | NA           | NA                                 | NA                            | NA       | 2          | NA          | NA | Yes                        | Embedded builtin same CAT4 LTE technology as P-LTE-GB    |
| C1109-4PLTE2P  | 1   | NA           | NA                                 | Yes with Pluggable Technology | NA       | 4          | NA          | NA | Yes                        | Yes (All), Dual Pluggables, Single P-1T Serial in Slot 0 |
| C1111-8P (C1111X-8P with 8 GB memory and flash for SD-WAN Advanced Security support) | 1   | 1            | NA                                 | NA                            | NA       | 8          | 4           | 2  | Yes                        | NA   |
| C1111-4P   | 1   | 1            | NA                                 | NA                            | NA       | 4          | 2           | 1  | Yes                        | NA   |
| C1112-8P   | NA  | 1            | 1 G.FAST (Annex B)                 | NA                            | NA       | 8          | 4           | 2  | Yes                        | NA   |
| C1113-8P   | NA  | 1            | 1 G.FAST (Annex A)                 | NA                            | NA       | 8          | 4           | 2  | Yes                        | NA   |
| C1113-8PM  | NA  | 1            | 1 G.FAST (Annex M)                 | NA                            | NA       | 8          | 4           | 2  | Yes                        | NA   |

| Model          | WAN |              |                                       |                               | Wi-Fi    | LAN switch |             |    | Integrated USB 3.0 console | Pluggable                        |
|----------------|-----|--------------|---------------------------------------|-------------------------------|----------|------------|-------------|----|----------------------------|----------------------------------|
|                | GE  | GE/SFP combo | ADSL2/VDSL2<br>+ or G.FAST or G.SHDSL | LTE<br>Advanced (CAT6)        | 802.11ac | GE         | PoE or PoE+ |    |                            |                                  |
| C1116-4P       | NA  | 1            | 1 VA-DSL (Annex B/J)                  | NA                            | NA       | 4          | 2           | 1  | Yes                        | NA                               |
| C1117-4P       | NA  | 1            | 1 VA-DSL (Annex A)                    | NA                            | NA       | 4          | 2           | 1  | Yes                        | NA                               |
| C1117-4PM      | NA  | 1            | 1 VA-DSL (Annex M)                    | NA                            | NA       | 4          | 2           | 1  | Yes                        | NA                               |
| C1101-4PLTEP   | 1   | NA           | NA                                    | Yes with Pluggable Technology | NA       | 4          | NA          | NA | Yes                        | Yes (All), or Single P-1T Serial |
| C1111-8PLTEEA  | 1   | 1            | NA                                    | 1 EMEAR & North America       | NA       | 8          | 4           | 2  | Yes                        | NA                               |
| C1111-8PLTELA  | 1   | 1            | NA                                    | 1 LATAM & APAC                | NA       | 8          | 4           | 2  | Yes                        | NA                               |
| C1111-4PLTEEA  | 1   | 1            | NA                                    | 1 EMEAR & North America       | NA       | 4          | 2           | 1  | Yes                        | NA                               |
| C1111-4PLTELA  | 1   | 1            | NA                                    | 1 LATAM & APAC                | NA       | 4          | 2           | 1  | Yes                        | NA                               |
| C1112-8PLTEEA  | NA  | 1            | 1 G.FAST (Annex B)                    | 1 EMEAR & North America       | NA       | 8          | 4           | 2  | Yes                        | NA                               |
| C1113-8PLTEEA  | NA  | 1            | 1 G.FAST (Annex A)                    | 1 EMEAR & North America       | NA       | 8          | 4           | 2  | Yes                        | NA                               |
| C1113-8PLTELA  | NA  | 1            | 1 G.FAST (Annex A)                    | 1 LATAM & APAC                | NA       | 8          | 4           | 2  | Yes                        | NA                               |
| C1113-8PMLTEEA | NA  | 1            | 1 G.FAST (Annex M)                    | 1 EMEAR & North America       | NA       | 8          | 4           | 2  | Yes                        | NA                               |
| C1116-4PLTEEA  | NA  | 1            | 1 ADSL2/VDSL2 + (Annex B/J)           | 1 EMEAR & North America       | NA       | 4          | 2           | 1  | Yes                        | NA                               |
| C1117-4PLTEEA  | NA  | 1            | 1 ADSL2/VDSL2 + (Annex A)             | 1 EMEAR & North America       | NA       | 4          | 2           | 1  | Yes                        | NA                               |

| Model   | WAN |              |                                       |                                     | Wi-Fi    | LAN switch |             |   | Integrated USB 3.0 console | Pluggable |
|---|-----|--------------|---------------------------------------|-------------------------------------|----------|------------|-------------|---|----------------------------|-----------|
|   | GE  | GE/SFP combo | ADSL2/VDSL2<br>+ or G.FAST or G.SHDSL | LTE<br>Advanced (CAT6)              | 802.11ac | GE         | PoE or PoE+ |   |                            |           |
| C1117-4PLTELA   | NA  | 1            | 1<br>ADSL2/VDSL2<br>+ (Annex A)       | 1 LATAM &<br>APAC                   | NA       | 4          | 2           | 1 | Yes                        | NA        |
| C1117-4PMLTEEA  | NA  | 1            | 1<br>ADSL2/VDSL2<br>+ (Annex M)       | 1 EMEAR &<br>North<br>America       | NA       | 4          | 2           | 1 | Yes                        | NA        |
| C1118-8P  | NA  | 1            | 1 G.SHDSL                             | NA                                  | NA       | 8          | 4           | 2 | Yes                        | NA        |
| C1121-8P<br><br>(C1121X-8P<br>with 8 GB<br>memory and<br>flash for SD-<br>WAN<br>Advanced<br>Security<br>support)         | 1   | 1            | NA                                    | NA                                  | NA       | 8          | 4           | 2 | Yes                        | NA        |
| C1121-8PLTEP<br><br>(C1121X-8PLTEP<br>with 8 GB<br>memory and<br>flash for SD-<br>WAN<br>Advanced<br>Security<br>support) | 1   | 1            | NA                                    | Yes with<br>Pluggable<br>Technology | NA       | 8          | 4           | 2 | Yes                        | Yes (All) |
| C1126-8PLTEP<br><br>(C1126X-8PLTEP<br>with 8 GB<br>memory and<br>flash for SD-<br>WAN<br>Advanced<br>Security<br>support) | NA  | 1            | 1<br>ADSL2/VDSL2<br>+ (Annex B/J)     | Yes with<br>Pluggable<br>Technology | NA       | 8          | 4           | 2 | Yes                        | NA        |
| C1127-8PLTEP<br><br>(C1127X-8PLTEP<br>with 8 GB<br>memory and<br>flash for SD-<br>WAN<br>Advanced<br>Security<br>support) | NA  | 1            | 1<br>ADSL2/VDSL2<br>+ (Annex A)       | Yes with<br>Pluggable<br>Technology | NA       | 8          | 4           | 2 | Yes                        | Yes (All) |

| Model  | WAN |              |                                       |                                     | Wi-Fi    | LAN switch |             |   | Integrated USB 3.0 console | Pluggable |
|--|-----|--------------|---------------------------------------|-------------------------------------|----------|------------|-------------|---|----------------------------|-----------|
|  | GE  | GE/SFP combo | ADSL2/VDSL2<br>+ or G.FAST or G.SHDSL | LTE<br>Advanced (CAT6)              | 802.11ac | GE         | PoE or PoE+ |   |                            |           |
| <b>C1127-8PMLTEP</b><br>(C1127X-8PMLTEP with 8 GB memory and flash for SD-WAN Advanced Security support) | NA  | 1            | 1<br>ADSL2/VDSL2<br>+ (Annex M)       | Yes with<br>Pluggable<br>Technology | NA       | 8          | 4           | 2 | Yes                        | Yes (All) |
| <b>C1161-8P</b><br>(C1161X-8P with 8 GB memory and flash for SD-WAN Advanced Security support)           | 1   | 1            | NA                                    | NA                                  | NA       | 8          | 4           | 2 | Yes                        | NA        |
| <b>C1161-8PLTEP</b><br>(C1161X-8PLTEP with 8 GB memory and flash for SD-WAN Advanced Security support)   | 1   | 1            | NA                                    | Yes with<br>Pluggable<br>Technology | NA       | 8          | 4           | 2 | Yes                        | Yes (All) |

**Table 8.** Cisco 1100 Series ISRs DSL and Wi-Fi SKUs

| Model                     | WAN |              |              |                                     | Wi-Fi    | LAN switch |             |    | Integrated USB 3.0 console | Pluggable   |
|---------------------------|-----|--------------|--------------|-------------------------------------|----------|------------|-------------|----|----------------------------|---|
|                           | GE  | GE/SFP combo | ADSL2/VDSL2+ | LTE<br>Advanced (CAT6)              | 802.11ac | GE         | PoE or PoE+ |    |                            |   |
| <b>C1109-4PLTE2PWZ***</b> | 1   | NA           | NA           | Yes with<br>Pluggable<br>Technology | 2X2 MIMO | 4          | NA          | NA | Yes                        | Yes (All),<br>Dual<br>Pluggables,<br>Single P-1T<br>Serial in Slot<br>0 |
| <b>C1111-8PWY*</b>        | 1   | 1            | NA           | NA                                  | 2X2 MIMO | 8          | 4           | 2  | Yes                        |   |

| Model        | WAN |              |                                 |                     | Wi-Fi    | LAN switch |             |   | Integrated USB 3.0 console | Pluggable |
|--------------|-----|--------------|---------------------------------|---------------------|----------|------------|-------------|---|----------------------------|-----------|
|              | GE  | GE/SFP combo | ADSL2/VDSL2+                    | LTE Advanced (CAT6) | 802.11ac | GE         | PoE or PoE+ |   |                            |           |
| C1111-4PWX** | 1   | 1            | NA                              | NA                  | 2X2 MIMO | 4          | 2           | 1 | Yes                        |           |
| C1112-8PWE   | NA  | 1            | 1 G.FAST (Annex B)              | NA                  | 2X2 MIMO | 8          | 4           | 2 | Yes                        |           |
| C1113-8PWA   | NA  | 1            | 1 G.FAST (Annex A)              | NA                  | 2X2 MIMO | 8          | 4           | 2 | Yes                        |           |
| C1113-8PWB   | NA  | 1            | 1 G.FAST (Annex A)              | NA                  | 2X2 MIMO | 8          | 4           | 2 | Yes                        |           |
| C1113-8PWE   | NA  | 1            | 1 G.FAST (Annex A)              | NA                  | 2X2 MIMO | 8          | 4           | 2 | Yes                        |           |
| C1113-8PWZ   | NA  | 1            | 1 G.FAST (Annex A)              | NA                  | 2X2 MIMO | 8          | 4           | 2 | Yes                        |           |
| C1113-8PMWE  | NA  | 1            | 1 G.FAST (Annex M)              | NA                  | 2X2 MIMO | 8          | 4           | 2 | Yes                        |           |
| C1116-4PWE   | NA  | 1            | 1 ADSL2/VDSL2+ (ISDN) Annex B/J | NA                  | 2X2 MIMO | 4          | 2           | 1 | Yes                        |           |
| C1117-4PWE   | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex A   | NA                  | 2X2 MIMO | 4          | 2           | 1 | Yes                        |           |
| C1117-4PWA   | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex A   | NA                  | 2X2 MIMO | 4          | 2           | 1 | Yes                        |           |
| C1117-4PWZ   | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex A   | NA                  | 2X2 MIMO | 4          | 2           | 1 | Yes                        |           |
| C1117-4PMWE  | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex M   | NA                  | 2X2 MIMO | 4          | 2           | 1 | Yes                        |           |

\* Wi-Fi domain WY; Y = A, B, E, F, H, N, Q, R, Z (S will be available with IOX XE 16.9 or later releases starting January, 2019)

\*\* Wi-Fi domain WX; X = A, B, D, E, F, H, N, Q, R, Z

\*\*\* Wi-Fi domain WZ; Z = A, B, D, E, Q, R, Z

Cisco WLAN Country Compliance Lookup <https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html>

Table 9. Cisco 1100 Series ISRs LTE, Wi-Fi, and DSL SKUs

| Model             | WAN |              | ADSL2/VDSL2+                    | LTE Advanced (CAT6)           | Wi-Fi<br>802.11ac | LAN switch |             |    | Integrated USB 3.0 console | Pluggable                        |
|-------------------|-----|--------------|---------------------------------|-------------------------------|-------------------|------------|-------------|----|----------------------------|----------------------------------|
|                   | GE  | GE/SFP combo |                                 |                               |                   | GE         | PoE or PoE+ |    |                            |                                  |
| C1111-8PLTEEAWX*  | 1   | 1            | NA                              | 1 EMEAR & North America       | 2X2 MIMO          | 8          | 4           | 2  | Yes                        | NA                               |
| C1111-8PLTELAZY** | 1   | 1            | NA                              | 1 LATAM & APAC                | 2X2 MIMO          | 8          | 4           | 2  | Yes                        | NA                               |
| C1112-8PLTEEAWE   | NA  | 1            | 1 G.FAST (Annex B)              | 1 EMEAR & North America       | 2X2 MIMO          | 8          | 4           | 2  | Yes                        | NA                               |
| C1113-8PLTEEAWA   | NA  | 1            | 1 G.FAST (Annex A)              | 1 EMEAR & North America       | 2X2 MIMO          | 8          | 4           | 2  | Yes                        | NA                               |
| C1113-8PLTEEAWB   | NA  | 1            | 1 G.FAST (Annex A)              | 1 EMEAR & North America       | 2X2 MIMO          | 8          | 4           | 2  | Yes                        | NA                               |
| C1113-8PLTEEAWE   | NA  | 1            | 1 G.FAST (Annex A)              | 1 EMEAR & North America       | 2X2 MIMO          | 8          | 4           | 2  | Yes                        | NA                               |
| C1113-8PLTELAZY   | NA  | 1            | 1 G.FAST (Annex A)              | 1 LATAM & APAC                | 2X2 MIMO          | 8          | 4           | 2  | Yes                        | NA                               |
| C1116-4PLTEEAWE   | NA  | 1            | 1 ADSL2/VDSL2+ (ISDN) Annex B/J | 1 EMEAR & North America       | 2X2 MIMO          | 4          | 2           | 1  | Yes                        | NA                               |
| C1117-4PLTEEAWE   | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex A   | 1 EMEAR & North America       | 2X2 MIMO          | 4          | 2           | 1  | Yes                        | NA                               |
| C1117-4PLTEEAWA   | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex A   | 1 EMEAR & North America       | 2X2 MIMO          | 4          | 2           | 1  | Yes                        | NA                               |
| C1117-4PLTELAZY   | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex A   | 1 LATAM & APAC                | 2X2 MIMO          | 4          | 2           | 1  | Yes                        | NA                               |
| C1117-4PMLTEEAWE  | NA  | 1            | 1 ADSL2/VDSL2+ (POTS) Annex M   | 1 EMEAR & North America       | 2X2 MIMO          | 4          | 2           | 1  | Yes                        | NA                               |
| C1101-4PLTEPWX*** | 1   | NA           | NA                              | Yes with Pluggable Technology | 2X2 MIMO          | 4          | NA          | NA | Yes                        | Yes (All), or Single P-1T Serial |

| Model  | WAN |              |              |                               | Wi-Fi    | LAN switch |             |   | Integrated USB 3.0 console | Pluggable |
|--|-----|--------------|--------------|-------------------------------|----------|------------|-------------|---|----------------------------|-----------|
|  | GE  | GE/SFP combo | ADSL2/VDSL2+ | LTE Advanced (CAT6)           | 802.11ac | GE         | PoE or PoE+ |   |                            |           |
| <b>C1121-8PLTEPWX*</b><br><br>(C1121X-8PLTEPWY* with 8 GB memory and flash for SD-WAN Advanced Security support) | 1   | 1            | NA           | Yes with Pluggable Technology | 2X2 MIMO | 8          | 4           | 2 | Yes                        | Yes (All) |

C1111-8PLTEAWX \*

\* Wi-Fi domain WX; X = A, B, E, R

C1111-8PLTELAZY \*\*

\*\* Wi-Fi domain WY; Y = D, F, H, N, Q, Z (S, E and A will be available with IOX XE 16.9 or later releases starting January, 2019)

C1101-4PLTEPWX \*\*\*

\*\*\* Wi-Fi domain WX; X = A, B, D, E, Z

C1121-8PLTEPWX \*

\* Wi-Fi domain WX; X = B, E, Z, Q

C1121X-8PLTEPWY \*\*

\*\* Wi-Fi domain WY; Y = A, E, B, Z

Cisco WLAN Country Compliance Lookup <https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html>

## System Specifications

**Table 10.** LTE (3GPP Category 4) Pluggable Bands Supported

| Region or theater                                    | Cisco LTE 2.5 for P-LTE-VZ   | Cisco LTE 2.5 for P-LTE-US  | Cisco LTE 2.5 for P-LTE-GB  |
|--|--|---|---|
| <b>Bands</b>   | LTE bands 4, 13.<br>FDD LTE 700 MHz (band 13), 1700 MHz and 2100 MHz (band 4 AWS). | LTE bands 2, 4, 5, 12.<br>FDD LTE 700 MHz (band 17), 700 MHz (band 12), 850 MHz (band 5 CLR), 1700 MHz and 2100 MHz (band 4 AWS). | LTE bands 1, 3, 7, 8, 20, 28.<br>FDD LTE 700 MHz (band 28), 800 MHz (band 20), 900 MHz (band 8), 1800 MHz (band 3), 2100 MHz (band 1), and 2600 MHz (band 7). |
| <b>Theoretical Category 4 download/upload speeds</b> | 150 Mbps/50 Mbps   | 150 Mbps/50 Mbps  | 150 Mbps/50 Mbps  |
| <b>United States</b>                                 | <ul style="list-style-type: none"> <li>Verizon</li> </ul>                          | <ul style="list-style-type: none"> <li>ATT and T-Mobile</li> </ul>  |   |
| <b>Europe</b>  |  |   | <ul style="list-style-type: none"> <li></li> </ul>  |

**Table 11.** LTE Advanced (3GPP Category 6) Pluggable Bands Supported (with Dying Gasp)

| Region or theater                                    | Cisco LTE Advanced 3.0 Pluggable P-LTEA-EA   | Cisco LTE Advanced 3.0 Pluggable P-LTEA-LA  |
|--|--|---|
| <b>Bands</b>   | <p>LTE bands 1-5, 7, 12, 13, 20, 25, 26, 29, 30, and 41.<br/>                     FDD LTE 700 MHz (band 12), 700 MHz (band 29), 800 MHz (band 20), 850 MHz (band 5 CLR), 850 MHz (band 26 Low), 900 MHz (band 8), 1800 MHz (band 3), 1900 MHz (band 2), 1900 MHz (PCS band 25), 1700 MHz and 2100 MHz (band 4 AWS), 2100 MHz (band 1), 2300 MHz (band 30), or 2600 MHz (band 7).<br/>                     TDD LTE 2500 MHz (band 41).</p> <p><b>Carrier aggregation band combinations:</b><br/>                     1+8; 2+(2,5,12,13,29); 3+(7,20); 4+(4,5,12,13,29); 7+(7,20); 12+30, 5+30, and 41+41.</p> | <p>LTE bands 1, 3, 5, 7, 8, 18, 19, 21, 28, 38, 39, 40, and 41.<br/>                     FDD LTE 700 MHz (band 28), 850 MHz (band 5 CLR), 850 MHz (bands 18 and 19 Low), 900 MHz (band 8), 1500 MHz (band 21), 1800 MHz (band 3), 2100 MHz (band 1), or 2600 MHz (band 7).<br/>                     TDD LTE 1900 MHz (band 39), 2300 MHz (band 40), 2500 MHz (band 41), or 2600 MHz (band 38).</p> <p><b>Carrier aggregation band combinations:</b><br/>                     1+(8,18,19,21); 3+(5,7,19,28); 7+(5,7,28); 19+21, 38+38, 39+39,40+40, and 41+41.</p> |
| <b>Theoretical Category 6 download/upload speeds</b> | 300 Mbps/50 Mbps   | 300 Mbps/50 Mbps  |
| <b>United States</b>                                 | •  |   |
| <b>Europe</b>  | •  |   |
| <b>Canada</b>  | •  |   |
| <b>Australia and New Zealand</b>                     |  | •   |
| <b>Japan</b>   |  | •   |
| <b>India</b>   |  | •   |



**Table 12.** LTE Advanced Bands Supported

| Region or theater                                    | Cisco LTE Advanced 3.0 LTEEA (Category 6)  | Cisco LTE Advanced 3.0 LTELA (Category 6)   |
|--|--|---|
| <b>Bands</b>   | <p>LTE bands 1-5, 7, 12, 13, 20, 25, 26, 29, 30, and 41.<br/>                     FDD LTE 700 MHz (band 12), 700 MHz (band 29), 800 MHz (band 20), 850 MHz (band 5 CLR), 850 MHz (band 26 Low), 900 MHz (band 8), 1800 MHz (band 3), 1900 MHz (band 2), 1900 MHz (PCS band 25), 1700 MHz and 2100 MHz (band 4 AWS), 2100 MHz (band 1), 2300 MHz (band 30), or 2600 MHz (band 7).<br/>                     TDD LTE 2500 MHz (band 41).</p> <p><b>Carrier aggregation band combinations:</b><br/>                     1+8; 2+(2,5,12,13,29); 3+(7,20); 4+(4,5,12,13,29); 7+(7,20); 12+30, 5+30, and 41+41.</p> | <p>LTE bands 1, 3, 5, 7, 8, 18, 19, 21, 28, 38, 39, 40, and 41.<br/>                     FDD LTE 700 MHz (band 28), 850 MHz (band 5 CLR), 850 MHz (bands 18 and 19 Low), 900 MHz (band 8), 1500 MHz (band 21), 1800 MHz (band 3), 2100 MHz (band 1), or 2600 MHz (band 7).<br/>                     TDD LTE 1900 MHz (band 39), 2300 MHz (band 40), 2500 MHz (band 41), or 2600 MHz (band 38).</p> <p><b>Carrier aggregation band combinations:</b><br/>                     1+(8,18,19,21); 3+(5,7,19,28); 7+(5,7,28); 19+21, 38+38, 39+39,40+40, and 41+41.</p> |
| <b>Theoretical Category 6 download/upload speeds</b> | 300 Mbps/50 Mbps   | 300 Mbps/50 Mbps  |
| <b>United States</b>                                 | •  |   |
| <b>Europe</b>  | •  |   |



| Region or theater                               | Cisco LTE Advanced 3.0 LTEEA (Category 6) | Cisco LTE Advanced 3.0 LTELA (Category 6)                                  |
|---|---|--|
| Canada  | •   |  |
| Middle East with specific LTE bands/frequencies | •   |  |
| Australia and New Zealand                       |   | •  |
| Japan   |   | •  |
| China   |   | •  |
| India   |   | •  |
| Southeast Asia                                  |   | •  |
| Latin America                                   |   | • Dependent upon specific operators supporting the LTE bands listed above. |
| South Korea                                     |   |  |

Table 13. Cisco LTE Advanced 3.0 (3GPP Category 6) Specifications

| Item  | Specification   |
|---|---|
| LTE modem form factor   | <ul style="list-style-type: none"> <li>• Embedded (included with the router) or LTE Pluggable Technology with LTEP PIDs</li> <li>• Cisco IOS Software feature set: Universal Cisco IOS XE 16.6.1 Software image or later. C1112, C1113, and C1101 models support starting with IOS XE 16.8.1 Software image or later. C1118, C1111X-8P and C1109 models support with IOS XE 16.9.1 Software image or later.</li> <li>• Cisco IOS Software feature set: C1120 and C1160 models Universal Cisco IOS XE 16.11.1 Software image or later.</li> <li>• Cisco LTE Advanced 3.0 LTEEA (CAT6) and Pluggable P-LTEA-EA SKU: FW-7455-LTE-VZ (Verizon) or FW-7455-LTE-AT (ATT) or FW-7455-LTE-ST (Sprint) or FW-7455-LTE-BE (Bell) or FW-7455-LTE-RO (Rogers) or FW-7455-LTE-TE (Telus) or FW-7455-LTE-GN (generic for T-Mobile, Europe, and Middle East) selection option.</li> <li>• Cisco LTE Advanced 3.0 LTELA (CAT6) and Pluggable P-LTEA-LA SKU: FW-7430-LTE-AU (Australia) or FW-7430-LTE-JN (Japan) or FW-7430-LTE-GN (generic) selection option.</li> </ul> |
| Important LTE features  | <ul style="list-style-type: none"> <li>• Automatic switch failover between primary and backup link.</li> <li>• Multichannel-Interface-Processor (MIP) profile configuration.</li> <li>• Remotely initiated data callback using voice or Short Message Service (SMS).</li> <li>• Remote firmware upgrade over LTE.</li> <li>• SIM lock and unlock capabilities.</li> </ul>   |
| Dual SIM support  | <ul style="list-style-type: none"> <li>• High reliability, and cellular multihoming support for dual micro (3FF) SIMs card socket; compliant with ISO-7816-2 (SIM mechanical), Auto SIM carrier capability with correct firmware selection (Fast SIM failover).</li> </ul>  |
| SMS and GPS   | <ul style="list-style-type: none"> <li>• GPS antenna: SMA connector (separate active GPS antenna with SMA option).</li> <li>• Send and receive SMS (maximum 160 characters).</li> <li>• Standalone GPS and Assisted GPS (AGPS); needs line of sight.</li> </ul>   |
| Modem information   | <b>Modem form factor:</b> M.2 EM7455 or M.2 EM7430 series for Cisco LTE Advanced 3.0, WP7600 series for Cisco LTE 2.5.  |
| Wireless technologies supported (performance and throughput)  | <b>Cisco LTE Advanced 3.0 LTEEA and LTELA (Refer to above Table 9: LTE Advanced Bands Supported)</b><br><b>Backward compatibility:</b> <ul style="list-style-type: none"> <li>• UMTS and HSPA+.</li> <li>• DC-HSPA+ speed download with Category 24 (42 Mbps) and upload up to Category 8 (11.5 Mbps). LTELA supports</li> </ul>  |

| Item             | Specification   |
|------------------|---|
|                  | <p>DC-HSPA+ band 1, 5, 6, 8, 9, 19. LTEEA supports DC-HSPA+ band 1, 2, 3, 4, 5, 8.</p> <ul style="list-style-type: none"> <li>• TD-SCDMA 39 (LTELA China Mobile supports).</li> </ul> <p><b>Cisco LTE 2.5 (Refer to Table 10: LTE Bands Supported) Backward compatibility:</b></p> <ul style="list-style-type: none"> <li>• P-LTE-US: HSPA+ (Band 2, 4, 5).</li> <li>• P-LTE-GB: UMTS, HSPA+ (Band 1, 8), EDGE, GSM, GPRS (900/1800).</li> </ul>                  |
| Included antenna | <ul style="list-style-type: none"> <li>• Two multiband swivel-mount dipole antennas (LTE-ANTM-D) are included with all Cisco LTE Advanced 3.0 Pluggables and 1100 Series routers. Two multiband swivel-mount dipole antennas (LTE-ANTM-SMA-D) are included with all Cisco LTE 2.5 Pluggables 1101 and 1109 Series routers.</li> </ul> <p>For –N antenna and cable installation guidance, view the <a href="#">Connected Grid Antennas Installation Guide</a>.</p> |
| Carrier support  | <ul style="list-style-type: none"> <li>• For a list of carriers that offer services on the Cisco 1100 Series LTE Advanced 3.0, please visit the <a href="#">Wireless Carrier Partners page</a>.</li> </ul>  |

**Table 14.** Cisco 1100 Series ISRs System Specifications

| Feature                            | Specification  |            |             |                                    |                                     |
|------------------------------------|--|------------|-------------|------------------------------------|-------------------------------------|
| Memory (default and maximum)       | <table border="0"> <tr> <td>DRAM: 4 GB</td> <td>Flash: 4 GB</td> </tr> <tr> <td>Only C1111X-8P model have 8GB DRAM</td> <td>Only C1111X-8P model have 8GB Flash</td> </tr> </table>  | DRAM: 4 GB | Flash: 4 GB | Only C1111X-8P model have 8GB DRAM | Only C1111X-8P model have 8GB Flash |
| DRAM: 4 GB                         | Flash: 4 GB  |            |             |                                    |                                     |
| Only C1111X-8P model have 8GB DRAM | Only C1111X-8P model have 8GB Flash  |            |             |                                    |                                     |
| Console                            | <ul style="list-style-type: none"> <li>• Micro USB console (USB 3.0).</li> </ul>   |            |             |                                    |                                     |
| Mini-USB port (reserved)           | <ul style="list-style-type: none"> <li>• Micro-USB port to support remote LTE diagnostics and monitoring tools (Qualcomm CAIT and Spirent UDM) (USB 3.0).</li> </ul>   |            |             |                                    |                                     |
| WLAN interfaces                    | <ul style="list-style-type: none"> <li>• Multiuser Multiple-Input Multiple-Output (MU-MIMO) allows transmission of data to multiple 802.11ac Wave 2–capable clients simultaneously to improve the client experience. Prior to MU-MIMO, 802.11n and</li> <li>• 802.11ac Wave 1 access points could transmit data to only one client at a time, typically referred to as Single-User MIMO (SU-MIMO).</li> <li>• 802.11ac Wave 2 with 2x2:2 MIMO technology uses two spatial streams when operating in SU-MIMO or MU-MIMO mode, offering 867-Mbps rates for more capacity and reliability than competing access points.</li> <li>• Flexible deployment through the <a href="#">Mobility Express solution</a> is ideal for small to medium-sized deployments. Easy setup allows the 1100 Series (similar to 1815i) to be deployed on networks without a physical controller.</li> <li>• For more information, view the <a href="#">Cisco Aironet 1815i Access Point Data Sheet</a>.</li> </ul> |            |             |                                    |                                     |
| Maximum clients                    | <ul style="list-style-type: none"> <li>• Maximum number of associated wireless clients: 200 per Wi-Fi radio; in total 400 clients per access point. C1109-4PLTEP and C1109-4PLTEW models come with default dual W-ANTM2050D-RPSMA external antenna and all modem have default 8.8 AP autonomous or Mobility Express release. Option to select 8.8 CAPWAP WLC image.</li> </ul>   |            |             |                                    |                                     |

| Feature                                  | Specification  |                   |               |                       |
|--|--|-------------------|---------------|-----------------------|
| <b>Authentication and security</b>       | <ul style="list-style-type: none"> <li>• AES for Wi-Fi Protected Access 2 (WPA2).</li> <li>• 802.1X, RADIUS AAA.</li> <li>• 802.11r and 802.11i.</li> </ul>  |                   |               |                       |
| <b>802.11ac</b>                          | <ul style="list-style-type: none"> <li>• 2x2 SU-MIMO/MU-MIMO with two spatial streams.</li> <li>• Maximal Ratio Combining (MRC).</li> <li>• 20-, 40-, and 80-MHz channels.</li> <li>• PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz).</li> <li>• Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx).</li> <li>• 802.11 Dynamic Frequency Selection (DFS).</li> <li>• Cyclic Shift Diversity (CSD) support.</li> </ul>  |                   |               |                       |
| <b>Software</b>                          | <ul style="list-style-type: none"> <li>• Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.5 (migration to 8.8 starting March, 2019 and 8.8 for 1101 and 1109 Models) MR1 or later.</li> </ul>  |                   |               |                       |
| <b>DSL interfaces</b>                    | <p><b>C1116 &amp; C1117</b></p> <ul style="list-style-type: none"> <li>• Dying gasp.</li> <li>• ITU G.993.2 (VDSL2) and supported profiles: 8a, 8b, 8c, 8d, 12a, 12b, and 17a.</li> <li>• VDSL2 Vectoring.</li> <li>• ADSL Annex A and Annex B ITU G. 992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+).</li> <li>• ADSL Annex M G.992.3 (ADSL2) and G.992.5 (ADSL2+).</li> </ul> <p><b>C1112 &amp; C1113</b></p> <ul style="list-style-type: none"> <li>• G.FAST (spectrum up to 106MHz) Annex A, Annex B, Annex M and compatible with ADSL2/2+ and VDSL2.</li> <li>• ITU G.993.2 (VDSL2) and supported profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 35b.</li> <li>• ITU G.9700/9701/997.2 G.FAST and supported profiles: 106a, and 106b.</li> </ul> <p><b>C1118</b></p> <ul style="list-style-type: none"> <li>• G.SHDSL.</li> </ul> |                   |               |                       |
| <b>Serial WAN interface and protocol</b> | <ul style="list-style-type: none"> <li>• Support for both synchronous and bisync modes</li> <li>• Synchronous maximum speed of up to 8 Mbps</li> <li>• Support for bisync modes</li> <li>• Support for network clock synchronization</li> <li>• EIA-232, EIA-449, EIA-530, EIA-530A, V.35, and X.21</li> </ul>   |                   |               |                       |
| <b>Cisco Smart Serial Cabling</b>        | <b>Product Number</b>  | <b>Cable Type</b> | <b>Length</b> | <b>Connector Type</b> |
|  | CAB-SS-V35MT   | V.35 DTE          | 10 ft (3m)    | Male                  |
|  | CAB-SS-V35FC   | V.35 DCE          | 10 ft (3m)    | Female                |
|  | CAB-SS-232MT   | EIA/TIA-232 DTE   | 10 ft (3m)    | Male                  |
|  | CAB-SS-232FC   | EIA/TIA-232 DCE   | 10 ft (3m)    | Female                |
|  | CAB-SS-449MT   | EIA/TIA-449 DTE   | 10 ft (3m)    | Male                  |
|  | CAB-SS-449FC   | EIA/TIA-449 DCE   | 10 ft (3m)    | Female                |
|  | CAB-SS-X21MT   | X.21 DTE          | 10 ft (3m)    | Male                  |
|  | CAB-SS-X21FC   | X.21 DCE          | 10 ft (3m)    | Female                |
|  | CAB-SS-530MT   | EIA/TIA-530 DTE   | 10 ft (3m)    | Male                  |
|  | CAB-SS-530AMT  | EIA/TIA-530A DTE  | 10 ft (3m)    | Male                  |
|  |  |                   |               | Male                  |
| <b>Inline PoE</b>                        | <ul style="list-style-type: none"> <li>• Optional internal adapter for inline PoE on 4 switch ports for IP phones or external wireless access points; 802.3af-compliant PoE or 802.3at-compliant PoE+.</li> </ul>  |                   |               |                       |

| Feature                         | Specification  |
|---------------------------------|--|
| External power supply           | <p><b>Product power specifications:</b></p> <p><b>C111X, C1120 and C1160 Models</b></p> <ul style="list-style-type: none"> <li>• AC input voltage: Universal 100 to 240 VAC.</li> <li>• Frequency: 50 to 60 Hz.</li> <li>• Maximum output power: 66W (default).</li> <li>• Output voltages: 12 VDC.</li> <li>• Optional PoE and PoE+: <ul style="list-style-type: none"> <li>◦ Single 150W power supply required for Cisco 1100-8P series router</li> <li>◦ Single 115W power supply required for Cisco 1100-4P series router</li> </ul> </li> <li>• External output voltage: 48 VDC.</li> </ul> <p><b>C1101-4PLTEPWX and C1109-4PLTE2PWX Models:</b></p> <ul style="list-style-type: none"> <li>• AC input voltage: Universal 100 to 240 VAC.</li> <li>• Frequency: 50 to 60 Hz.</li> <li>• Maximum output power: 66W (default iTemp for C1109-4PLTE2PWX Models).</li> <li>• Output voltages: 12 VDC.</li> </ul> <p><b>C1101-4P, C1101-4PLTEP, C1109-2PLTE, and C1109-4PLTE2P Models:</b></p> <ul style="list-style-type: none"> <li>• AC input voltage: Universal 100 to 240 VAC.</li> <li>• Frequency: 50 to 60 Hz.</li> <li>• Maximum output power: 30W (default iTemp for Models).</li> <li>• Output voltages: 12 VDC.</li> </ul> |
| USB 3.0                         | <ul style="list-style-type: none"> <li>• USB devices supported: <ul style="list-style-type: none"> <li>◦ USB eTokens and USB flash memory</li> </ul> </li> <li>• Devices USB 3.0 supports to be connected externally. View the <a href="#">USB Device Support Data Sheet</a>.</li> </ul>   |
| LEDs                            | <ul style="list-style-type: none"> <li>• WWAN (green/amber).</li> <li>• SIM status (green/amber).</li> <li>• Received signal strength indication (RSSI) bar (green).</li> <li>• 3G/LTE service (green/amber).</li> <li>• GPS (green/amber).</li> <li>• Speed and link for Gigabit Ethernet WAN port (green).</li> <li>• Speed and link for all Fast Ethernet LAN ports (green).</li> </ul>   |
| Physical dimensions (H x W x D) | <p><b>C111X Models</b></p> <ul style="list-style-type: none"> <li>• 1.75 x 12.7 x 9.6 in. (44 x 323 x 244 mm) (includes rubber feet on LTE models).</li> <li>• 1.75 x 12.7 x 9.03 in. (42 x 323 x 230mm) (includes rubber feet on non-LTE models).</li> </ul> <p><b>C1120 and C1160 Models</b></p> <ul style="list-style-type: none"> <li>• TBD</li> </ul> <p><b>C1101-4PLTEP and C1101-4PLTEPWX Models</b></p> <ul style="list-style-type: none"> <li>• 1.73 x 9.75 x 6.6 in. (43.9 x 247.6 x 167.6 mm) (includes rubber feet models).</li> </ul> <p><b>C1101-4P Models</b></p> <ul style="list-style-type: none"> <li>• 1.1 x 7.5 x 6.0 in. (27.9 x 190.5 x 152.4 mm) (includes rubber feet models).</li> </ul> <p><b>C1109-2PLTE Models</b></p> <ul style="list-style-type: none"> <li>• 1.27 x 8.4 x 6.0 in. (32.3 x 213.4 x 152.4mm) (includes rubber feet models).</li> </ul> <p><b>C1109-4PLTE2P and C1109-4PLTE2PWX Models (ship default with dual W-ANTM2050DRPSMA Wi-Fi antennae)</b></p>  |

| Feature                               | Specification  |
|---------------------------------------|--|
|                                       | <ul style="list-style-type: none"> <li>• 1.71 x 11.16 x 9.8 in. (43.4 x 283.5 x 248.9 mm) (includes rubber feet models).</li> </ul> <p><b>Pluggable</b></p> <ul style="list-style-type: none"> <li>• .85 x 2.5 x 3.88 in. (21.6 x 63.5 x 98.5 mm).</li> </ul>  |
| <b>Weight</b>                         | <p><b>C111X Models</b></p> <ul style="list-style-type: none"> <li>• 1.94 lb to 4.59 lb (1.94kg to 2.08 kg).</li> <li>• 4.50 lb (2.04 kg) with LTE Advanced.</li> <li>• 4.76 lb (2.16 kg) with Wave 2 802.11ac Dual Radio.</li> <li>• 4.89 lb (2.22 kg) with LTE Advanced plus Wave 2 802.11ac Dual Radio.</li> </ul> <p><b>C1120 and C1160 Models</b></p> <ul style="list-style-type: none"> <li>• TBD</li> </ul> <p><b>C1101-4PLTEPWX Models</b></p> <ul style="list-style-type: none"> <li>• 3.78 lb (1.71kg).</li> </ul> <p><b>C1101-4PLTEP Models</b></p> <ul style="list-style-type: none"> <li>• 3.34 lb (1.51kg).</li> </ul> <p><b>C1101-4P Models</b></p> <ul style="list-style-type: none"> <li>• 1.89 lb (.86kg).</li> </ul> <p><b>C1109-2PLTE Models</b></p> <ul style="list-style-type: none"> <li>• 2.25 lb (1.02kg).</li> </ul> <p><b>C1109-4PLTE2PWX Models (Only C1109-4PLTE2PWX have external Wi-Fi antennae options)</b></p> <ul style="list-style-type: none"> <li>• 6.23 lb (2.83kg).</li> </ul> <p><b>C1109-4PLTE2P Models</b></p> <ul style="list-style-type: none"> <li>• 5.93 lb (2.69kg).</li> </ul> <p><b>Pluggable</b></p> <ul style="list-style-type: none"> <li>• CAT6 EM74XX.44 lb (.20kg).</li> <li>• CAT4 WP76XX.40 lb (.18kg).</li> </ul> |
| <b>Standard safety certifications</b> | <ul style="list-style-type: none"> <li>• UL 60950-1.and EN 60950-1.</li> <li>• CAN/CSA C22.2 No. 60950-1.</li> <li>• CB to IEC 60950-1, 2<sup>nd</sup> edition with all group differences and national deviations.</li> </ul>  |
| <b>EMC emissions</b>                  | <ul style="list-style-type: none"> <li>• EN55022/CISPR22, CFR 47 Part 15, ICES003, VCCI-V-3, AS/NZS CISPR22, CNS13438, EN300-386, EN61000-3-2, EN61000-3-3, and EN61000-6-1.</li> </ul>  |
| <b>EMC immunity</b>                   | <ul style="list-style-type: none"> <li>• EN55024/CISPR24, (EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11), and EN300-386.</li> </ul>   |
| <b>Radio immunity</b>                 | <ul style="list-style-type: none"> <li>• EN301 489-1, EN 301 489-7, and EN301 489-24.</li> </ul>   |
| <b>Cellular radio</b>                 | <ul style="list-style-type: none"> <li>• EN 301 908-1, EN 301 908-2, EN 301 511, 47 CFR Part 22, 47 CFR Part 24, and EN 301 908-13.</li> </ul>   |

| Feature                       | Specification  |
|-------------------------------|--|
| Environmental operating range | <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 4570 m).</li> <li>• Operating temperature: 32° to 104°F (0° to 40°C). C1101 support 32° to 113°F (0° to 45°C). C1109-2PLTE support 32° to 122°F (0° to 50°C). C1109-4PLTE2P and C1109-4PLTE2PW models support -4° to 131°F (-20° to 55°C).</li> <li>• Operating humidity: 10% to 85% relative humidity (noncondensing).</li> <li>• Operating altitude: 0 to 10,000 ft (0 to 3000 m at 30°C). Operating altitude: 0 to 10,000 ft (0 to 3000 m at 35°C for C1109-2PLTE models). Operating altitude: 0 to 10,000 ft (0 to 3000 m at 40°C for C1109-4PLTE2P and C1109-4PLTE2PW models).</li> </ul> |

## 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.



Four major technology licenses are available on the Cisco 1100 Series; these licenses can be activated through the Cisco software activation process identified at <https://www.cisco.com/go/sa>. The following licenses are available:

- IP Base: This technology package is available as 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.

The Cisco SD-WAN subscriptions are aligned across three subscription licenses of **Cisco DNA Essentials**, **Cisco DNA Advantage** and **Cisco DNA Premier**, each expanding functionally. The **Cisco DNA Essentials** covers all types of connectivity & router life cycle management, support for Network & application visibility coupled with basic premise and transport security. The **Cisco DNA Advantage** provides for Advanced WAN topologies, Application aware policies supported by enhanced network security. The **Cisco DNA Premier** provides for Cloud connectivity with unlimited segmentation, Advanced Application optimization & Network Analytics, secured by advanced threat protection. There are separate SD-WAN promotional PIDs or using LIC-DNA-ADD option. For Cisco ONE, there is also C1-ISR-ADD option.

Cisco CVO is now supported on 1100-8P and 1100-4P models with SEC license.

For more information on Cisco SD-WAN please refer to: <https://www.cisco.com/c/en/us/products/software/one-wan-subscription/index.html>

**Table 15.** Cisco 1100 Series Licenses

| Part number   | Bundles                      | Features   |
|---|------------------------------|--|
| SL-1100-8P-IPB<br>SL-1100-4P-IPB<br>SL-1100-2P-IPB  | IP Base (default)            | Routing protocols, ACL, NAT, QoS, BFD, VRF Lite, IP SLA Responder.   |
| SL-1100-8P-APP(=)<br>SL-1100-4P-APP(=)<br>SL-1100-2P-APP(=)   | Application Experience (APP) | IP Base + advanced networking protocols: L2TPv3, MPLS.<br>Application Experience: Pfrv3, NBAR2, AVC, IPSLA Initiator.<br>Hybrid Cloud Connectivity: LISP, Virtual Private LAN Services (VPLS), Ethernet over MPLS.   |
| SL-1100-8P-SEC(=)<br>SL-1100-8P-SECNPE(=)<br>SL-1100-4P-SEC(=)<br>SL-1100-4P-SECNPE(=)<br>SL-1100-2P-SEC(=)<br>SL-1100-2P-SECNPE(=) | Security (SEC)               | IP Base + Advanced Security: Zone-based firewall, IPsec VPN, Dynamic Multipoint VPN (DMVPN), FlexVPN, GETVPN.<br>Provides up to 50 Mbps IPsec performance. SEC license needed for CVO deployment option.   |
| FL-VPERF-8P-200(=)<br>FL-VPERF-4P-100(=)  | IPSec Performance (VPERF)    | IPsec Performance: Additional 100 Mbps for ISR 1100-4P and 200 Mbps for ISR 1100-8P. Not applicable on C1109-2PLTE models.   |
| FL-1100-8P-HSEC(=)<br>FL-1100-4P-HSEC(=)<br>FL-1100-2P-HSEC(=)  | IPSec HSEC                   | IPSEC HSEC License for Cisco ISR 1100 8P,ISR 1100 4P, and 1100 2P. Support with IOS XE 16.8.1 or later releases.   |
| C1F1PISR1100S8PK9<br>C1F1PISR1100S4PK9  | Cisco One S/W Bundle         | APP, SEC, PRIME licenses (SL-1100-8P-IPB, C1-SL-11008P-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-SL1100-4P-SEC or C1-SL-1100-4P-SECNPE, C1-PI-LFASISR-K9, C1F1VISR1100S4P-01, C1-SL-1100-PAK). Cisco ONE selection option can also be orderwith separate SWSS PID under C1-ISR-ADD. |

Table 16. Product Part Numbers and Software Images

| Product part number                          | Description  |
|--|--|
| <b>Router software images</b>                |  |
| SISR1100UK9-166(=)                           | Cisco 1100 ISR Universal Image and Non-Pay load Encryptions Image.   |
| SISR1100NPEUK9-166(=)                        |  |
| SISR1100UK9-168(=)                           |  |
| SISR1100NPEUK9-168(=)                        |  |
| SISR1100UK9-169(=)                           |  |
| SISR1100NPEUK9-169(=)                        |  |
| SISR1100UK9-1610(=)                          |  |
| SISR11NPEUK9-1610(=)                         |  |
| SISR1100UK9-1611(=)                          |  |
| SISR11NPEUK9-1611(=)                         |  |
| <b>SD-WAN image</b>                          |  |
| SISR1100UCMK9-169(=)                         | SD-WAN Image for ISR 1100 platforms. Some models with –DNA value, –SPM promotional PIDs or certain models with separate LIC-DNA-ADD (or L-LIC-DNA-ADD) option. |
| SISR1100UCMK9-1610(=)                        |  |
| SISR1100UCMK9-1611(=)                        |  |
| <b>Access point software images</b>          |  |
| AIR-AP1815-K9-ME-8-8-110-0.tar               | Cisco 111X Models AP delivers industry-leading wireless performance with support for the latest Wi-Fi standard, IEEE’s 802.11ac Wave 2 and Mobility Express.   |
| <b>DSL firmware options</b>                  |  |
| A2pvbF039t.d26d                              | Annex A & M.   |
| B2pv6F039g1.d26d                             | Annex B & J.   |
| A2pvfbH043j                                  | G.FAST Annex A & M.  |
| B2pvfbH043j                                  | G.FAST Annex B.  |
| <b>Power over Ethernet options</b>           |  |
| ISR-1100-POE2(=)                             | 1100-4P with 115W PSU (2 PoE or 1 PoE+). Spare available late October, 2018.   |
| ISR-1100-POE4(=)                             | 1100-8P with 150W PSU (4 PoE or 2 PoE+). Spare available late October, 2018.   |
| <b>Rack mount kit and RJ Console Adapter</b> |  |
| ACS-1100-RM-19(=)                            | Rack-mount kit for all 111X Series ISRs.   |
| CAB-CON-USBRJ45(=)                           | Micro USB to RJ5 Console Adapter (Only for 1101 and 1109 Models).  |



| Product part number | Description  |
|---------------------|--|
| <b>Pluggable</b>    |  |
| P-LTEA-EA(=)        | System and spare CAT6 LTE Advanced Pluggable for North American and Europe.                            |
| P-LTEA-LA(=)        | System and spare CAT6 LTE Advanced Pluggable for APAC, ANZ, and LATAM.                                 |
| P-LTE-VZ(=)         | System and spare CAT4 LTE Pluggable for Verizon. Single SIM slot. Spare need antenna selection option. |
| P-LTE-US(=)         | System and spare CAT4 LTE Pluggable for ATT and T-Mobile. Spare need antenna selection option.         |
| P-LTE-GB(=)         | System and spare CAT4 LTE Pluggable for Europe. Spare need antenna selection option.                   |
| P-1T(=)             | System and spare Cisco 12:1 High Speed serial WAN interface (sync and bisync)                          |
| P-BLANK(=)          | System and spare blank Pluggable   |

| Small Form-Factor Pluggable | ISR 1100 8P | ISR 1100 4P | Description   |
|-----------------------------|-------------|-------------|---|
| GLC-EX-SMD                  | Yes         | Yes         | 1000BASE-EX SFP transceiver module, SMF, 1310nm, DOM. |
| GLC-LH-SM                   | Yes         | Yes         | GE SFP, LC connector LX/LH transceiver.               |
| GLC-LH-SMD                  | Yes         | Yes         | GE SFP, LC connector LX/LH transceiver; with DOM.     |
| GLC-SX-MM                   | Yes         | Yes         | GE SFP, LC connector SX transceiver.                  |
| GLC-SX-MMD                  | Yes         | Yes         | GE SFP, LC connector SX transceiver; with DOM.        |
| GLC-ZX-SM                   | Yes         | Yes         | 1000BASE-ZX SFP.                                      |
| GLC-ZX-SMD                  | Yes         | Yes         | 1000BASE-ZX SFP; with DOM.                            |
| GLC-FE-100FX                | Yes         | Yes         | 100BASE-FX SFP for FE port.                           |
| GLC-FE-100LX                | Yes         | Yes         | 100BASE-LX SFP for FE port.                           |
| GLC-FE-100ZX                | Yes         | Yes         | 100BASE-ZX SFP (80km).                                |
| GLC-FE-100EX                | Yes         | Yes         | 100BASE-EX SFP (40km).                                |
| GLC-FE-100BX-D              | Yes         | Yes         | 100BASE-BX10-D SFP.                                   |
| GLC-FE-100BX-U              | Yes         | Yes         | 100BASE-BX10-U SFP.                                   |
| GLC-GE-100FX                | Yes         | Yes         | 100FX SFP on GE ports.                                |
| GLC-BX80-D-I                | Yes         | Yes         | 1000BASE-BX80 SFP, 1570NM.                            |
| GLC-BX80-U-I                | Yes         | Yes         | 1000BASE-BX80 SFP, 1490NM.                            |
| GLC-BX40-D-I                | Yes         | Yes         | 1000BASE-BX40 SFP, 1550NM.                            |

| Small Form-Factor Pluggable | ISR 1100 8P | ISR 1100 4P | Description  |
|-----------------------------|-------------|-------------|--|
| GLC-BX40-U-I                | Yes         | Yes         | 1000BASE-BX40 SFP, 1310NM.   |
| GLC-BX-D                    | Yes         | Yes         | 1000BASE-BX SFP, 1490NM.   |
| GLC-BX-U                    | Yes         | Yes         | 1000BASE-BX SFP, 1310NM.   |
| GLC-TE                      | Yes         | Yes         | 10/100/1000BASE-T.   |
| GLC-T                       | Yes         | Yes         | 10/100/1000BASE-T.   |
| SFP-GE-S                    | Yes         | Yes         | 1000BASE-SX SFP transceiver module for MMF, 850-nm wavelength, extended operating temperature range and DOM support, dual LC/PC connector. |
| SFP-GE-T                    | Yes         | Yes         | 10/100/1000BASE-T SFP (NEBS 3 ESD).  |

## For More Information

For more information about the Cisco 1100 Series ISRs, visit <https://www.cisco.com/go/ISR1000> or contact your local Cisco account representative.

To learn more about Cisco SD-WAN Security, visit <https://www.cisco.com/c/en/us/solutions/enterprise-networks/sd-wan/sd-wan-security.htmlnetworks/sd-wan/sd-wan-security.html>.

For additional information and details about Cisco IOS Software licensing and packaging on the Cisco 1100 Series, please visit:

<https://www.cisco.com/c/en/us/support/routers/1100-series-integrated-services-routers-isr/productshttps://www.cisco.com/c/en/us/support/routers/1100-series-integrated-services-routers-isr/products-licensing-information-listing.htmllicensing-information-listing.html>

For the Cisco 1100 ISR Hardware and Software Installation Guide, Go to:

<https://www.cisco.com/c/en/us/support/routers/1100-series-integrated-services-routers-isr/productshttps://www.cisco.com/c/en/us/support/routers/1100-series-integrated-services-routers-isr/products-installation-guides-list.htmlinstallation-guides-list.html>

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## 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 1100 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/go/services>.

## Ordering Information

To place an order, visit the [Cisco Ordering Home Page](#). To download software, visit the [Cisco Software Center](#).

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## Document History

| New or revised topic  | Described in                       | Date             |
|---|------------------------------------|------------------|
| Add support for P-1T high speed serial pluggable module and update some corrections                     | Updated throughout document        | April 18, 2019   |
| Add support for C1109-4PLTE2P models, LIC-DNA-ADD option, SDWAN promotional PIDs, and C1-ISR-ADD option | Updated throughout document        | January 11, 2019 |
| Add support for new platforms, add available date   | C1118-8P, C1111X-8P, C1109-2PLTEXX | October 05, 2018 |

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