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Overview

Cisco® 1000 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 separate data and control plane capabilities.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	C1121-4P
Product Description	ISR 1100 4P Dual GE SFP Router
Memory (default and maximum)	DRAM: 4 GB Flash: 4 GB
Dimensions (H x W x D)	1.65 x 12.7 x 8.9 in. (41.9 x 322 x 226 mm)

Product Details

ISR 1100 Series provides these features:

- Lightweight, compact size with low power consumption
- High performance to run concurrent services
- High availability and business continuity
- Consistent, high application performance levels
- Risk mitigation with multilevel security
- Unified control of wired and wireless networks from a common console for streamlined operations
- Remote configuration and management to keep local IT staff lean
- Performance
 - Throughput
 - Service reliability
- Lower WAN expenditures
- Pay as you grow: IPsec performance upgrade model
- IT consolidation, space savings, and improved Total Cost of Ownership (TCO)
- Business continuity and increased resiliency

Architectural highlights

- Multicore processors
- Embedded IPsec VPN hardware acceleration
- Integrated Gigabit Ethernet ports
- USB-based console access
- Optional PoE upgrade
- Flash memory support
- DRAM

Table 2 shows the business benefits.

Business need	Features/description
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Lightweight, compact size with low power consumption	<ul style="list-style-type: none"> •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).
High performance to run concurrent services	<ul style="list-style-type: none"> •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 better overall performance.
High availability and business continuity	<ul style="list-style-type: none"> •Redundant WAN connections for failover protection and load balancing. •Dynamic failover protocols such as Virtual Router Redundancy Protocol (VRRP; RFC 2338), Hot Standby Router Protocol (HSRP), and Multigroup HSRP (MHSRP).
Consistent, high application performance levels	<ul style="list-style-type: none"> •The router can run multiple services simultaneously with minimal performance degradation.
Risk mitigation with multilevel security	<ul style="list-style-type: none"> •Network perimeter security with integrated application inspection firewall. •Data privacy through high-speed IP Security (IPsec) Triple Data Encryption Standard (3DES), and Advanced Encryption Standard (AES) encryption. •High-performance VPNs: DMVPN, FlexVPN, GETVPN. •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. •Cisco Umbrella™ is a cloud security platform that provides the first line of defense against threats on the internet wherever users go. •Security hardware acceleration. •Trustworthy systems with Field-Programmable Gate Array (FPGA) and hardware anchor.
Unified control of wired and wireless networks from a common console for streamlined operations	<ul style="list-style-type: none"> •Simplifies and centralizes configuration and management of wireless and wireline devices. Supports WLAN services without requiring a wireless LAN controller. •Supports Mobility Express for WLAN-enabled routers.
Remote configuration and management to keep local IT staff lean	<ul style="list-style-type: none"> •Supports separate console and USB ports. Can be configured to work with optional USB token. •Supports TR-069.
Performance •Throughput •Service reliability	<ul style="list-style-type: none"> •ISR 1100 can provide encrypted traffic performance greater than 350 Mbps. •A distributed multicore architecture with the dedicated control plane and service plane. •Remote installation of application-aware services that run identically to their counterparts in dedicated appliances (Future roadmap).
Lower WAN expenditures	<ul style="list-style-type: none"> •Cisco Software-Defined WAN (SD-WAN) support for optimized WAN connection. •Smaller form factor and Cisco Pluggable technology provide additional protection investment and flexibility.
Pay as you grow: IPsec performance upgrade model	<ul style="list-style-type: none"> •Router IPsec capacity can be increased with a remote performance-on-demand license upgrade (no hardware upgrade) for exceptional savings and CapEx budget management.
IT consolidation, space savings, and improved Total Cost of Ownership (TCO)	<ul style="list-style-type: none"> •Single converged branch platform integrates routing, switching, security, and performance management capabilities.
Business continuity and increased resiliency	<ul style="list-style-type: none"> •The entire 1000 Series supports Power over Ethernet (PoE) and PoE+ power to endpoints (Not available on C1101 and C1109 smaller form factor series).

Table 3 shows the licenses for C1100 4P Series.

Licenses	Description
SL-1100-4P-APP	AppX License for Cisco ISR 1100 4P Series
C1-SL-1100-4P-APP	AppX Foundation License for Cisco ISR 1100 4P Series
SL-1100-4P-SEC	Security License for Cisco ISR 1100 4P Series
C1-SL-1100-4P-SEC	Security License for Cisco ISR 1100 4P Series
SL-1100-4P-SECNPE	NPE Security License for Cisco ISR 1100 4P Series

Small Form-Factor Pluggable Supported

Table 4 shows the SFP for Cisco 1100 Series Routers.

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-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-BX-D	Yes	Yes	1000BASE-BX SFP, 1490NM.
GLC-BX-U	Yes	Yes	1000BASE-BX SFP, 1310NM.

Compare to Similar Items

Table 5 shows the comparison of ISR 1100 Series.

Model	Product Description
C1121-4P	ISR 1100 4P Dual GE SFP Router
C1121-4PLTEP	ISR 1100 4P Dual GE SFP Router Pluggable SMS/GPS
C1121-8PLTEP	ISR 1100 8P Dual GE SFP Router Pluggable SMS/GPS

Get More Information

Do you have any question about the C1121-4P?

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Specification

C1121-4P Specification	
Product Code	C1121-4P
Product Description	ISR 1100 4P Dual GE SFP Router
Memory (default and maximum)	<ul style="list-style-type: none">•DRAM: 4 GBOnly C1111X-8P,C1121X-8P,C1126X,C1127X, C1161X models have 8GB DRAM•Flash: 4 GBOnly C1111X-8P,C1121X-8P,C1126X,C1127X, C1161X models have 8GB Flash
Console	<ul style="list-style-type: none">•Micro USB console (Type A).•RJ45.
Micro-USB port (reserved)	<ul style="list-style-type: none">•Micro-USB port to support remote LTE diagnostics and monitoring tools (Qualcomm CAIT and Spirent UDM) (USB 3.0).

WLAN interfaces	<ul style="list-style-type: none"> •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 •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). •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. •Flexible deployment through the Mobility Express solution is ideal for small to medium-sized deployments. Easy setup allows the 1000 Series (similar to 1815i) to be deployed on networks without a physical controller. •For more information, view the Cisco Aironet 1815i Access Point Data Sheet.
Maximum clients	<ul style="list-style-type: none"> •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 modems have default 8.8 AP autonomous or Mobility Express release. Option to select 8.8 CAPWAP WLC image.
Authentication and security	<ul style="list-style-type: none"> •AES for Wi-Fi Protected Access 2 (WPA2). •802.1X, RADIUS AAA. •802.11r and 802.11i.
802.11ac	<ul style="list-style-type: none"> •2x2 SU-MIMO/MU-MIMO with two spatial streams. •Maximal Ratio Combining (MRC). •20-, 40-, and 80-MHz channels. •PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz). •Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx). •802.11 Dynamic Frequency Selection (DFS). •Cyclic Shift Diversity (CSD) support.
Software	<ul style="list-style-type: none"> •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. •Cisco IOS Software feature set: C1120 and C1160 models Universal Cisco IOS XE 16.11.1 Software image or later. •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.
Serial WAN interface and protocol	<ul style="list-style-type: none"> •Support for both synchronous and bisync modes. •Synchronous maximum speed of up to 8 Mbps. •Support for bisync modes. •Support for network clock synchronization. •EIA-232, EIA-449, EIA-530, EIA-530A, V.35, and X.21.
Inline PoE	<ul style="list-style-type: none"> •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+.
External power supply	<p>Product power specifications:</p> <p>C111X, C1120 and C1160 Models</p> <ul style="list-style-type: none"> •AC input voltage: Universal 100 to 240 VAC. •Frequency: 50 to 60 Hz. •Maximum output power: 66W (default). •Output voltages: 12 VDC. •Optional PoE and PoE+: -Single 150W power supply required for Cisco 1100-8P series router -Single 115W power supply required for Cisco 1100-4P series router •External output voltage: 48 VDC. <p>C1101-4PLTEPWX and C1109-4PLTE2PWX Models:</p> <ul style="list-style-type: none"> •AC input voltage: Universal 100 to 240 VAC. •Frequency: 50 to 60 Hz. •Maximum output power: 66W (default iTemp for C1109-4PLTE2PWX Models). •Output voltages: 12 VDC. <p>C1101-4P, C1101-4PLTEP, C1109-2PLTE, and C1109-4PLTE2P Models:</p> <ul style="list-style-type: none"> •AC input voltage: Universal 100 to 240 VAC. •Frequency: 50 to 60 Hz. •Maximum output power: 30W (default iTemp for Models). •Output voltages: 12 VDC.
USB 3.0	<ul style="list-style-type: none"> •USB devices supported: -USB eTokens and USB flash memory •Devices USB 3.0 supports to be connected externally. View the USB Device Support Data Sheet .

EDs	<ul style="list-style-type: none"> •WWAN (green/amber). •SIM status (green/amber). •Received signal strength indication (RSSI) bar (green). •3G/LTE service (green/amber). •GPS (green/amber). •Speed and link for Gigabit Ethernet WAN port (green). •Speed and link for all Fast Ethernet LAN ports (green).
Physical dimensions (H x W x D)	<p>C111X Models</p> <ul style="list-style-type: none"> •1.75 x 12.7 x 9.6 in. (44 x 323 x 244 mm) (includes rubber feet on LTE models). •1.75 x 12.7 x 9.03 in. (42 x 323 x 230mm) (includes rubber feet on non-LTE models). <p>C1120 Models</p> <ul style="list-style-type: none"> •1.65 x 12.7 x 8.9 in. (41.9 x 322 x 226 mm). <p>C1160 Models</p> <ul style="list-style-type: none"> •1.65 x 10.8 x 7.85 in. (41.9 x 274 x 199 mm). <p>C1101-4PLTEP and C1101-4PLTEPW Models</p> <ul style="list-style-type: none"> •1.73 x 9.75 x 6.6 in. (43.9 x 247.6 x 167.6 mm) (includes rubber feet models). <p>C1101-4P Models</p> <ul style="list-style-type: none"> •1.1 x 7.5 x 6.0 in. (27.9 x 190.5 x 152.4 mm) (includes rubber feet models). <p>C1109-2PLTE Models</p> <ul style="list-style-type: none"> •1.27 x 8.4 x 6.0 in. (32.3 x 213.4 x 152.4mm) (includes rubber feet models). <p>C1109-4PLTE2P and C1109-4PLTE2PW Models (ship default with dual W-ANTM2050DRPSMA Wi-Fi antennae)</p> <ul style="list-style-type: none"> •1.71 x 11.16 x 9.8 in. (43.4 x 283.5 x 248.9 mm) (includes rubber feet models). <p>Pluggable</p> <ul style="list-style-type: none"> •0.85 x 2.5 x 3.88 in. (21.6 x 63.5 x 98.5 mm).
Standard safety certifications	<ul style="list-style-type: none"> •UL 60950-1.and EN 60950-1. •CAN/CSA C22.2 No. 60950-1. •CB to IEC 60950-1, 2nd edition with all group differences and national deviations.
EMC emissions	<ul style="list-style-type: none"> •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.
EMC immunity	<ul style="list-style-type: none"> •EN55024/CISPR24, (EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11), and EN300-386.
Radio immunity	<ul style="list-style-type: none"> •EN301 489-1, EN 301 489-7, and EN301 489-24.
Cellular radio	<ul style="list-style-type: none"> •EN 301 908-1, EN 301 908-2, EN 301 511, 47 CFR Part 22, 47 CFR Part 24, and EN 301 908-13.
Environmental operating range	<ul style="list-style-type: none"> •Nonoperating temperature: -4° to 149°F (-20° to 65°C). •Nonoperating humidity: 5% to 95% relative humidity (noncondensing). •Nonoperating altitude: 0 to 15,000 ft (0 to 4570 m). •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). •Operating humidity: 10% to 85% relative humidity (noncondensing). •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).

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