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## Overview

Cisco 1100 Series Integrated Services Router (ISRs) delivers Cisco IOS® XE Software, providing WAN, comprehensive security, wired and wireless access in a single, high-performance platform. Cisco 1100 Series ISR is ideal for Small and Medium enterprise branch offices. The C1113-8PWE is the ISR 1100 G.FAST GE Router w/ 802.11ac, E WiFi domain.

## Quick Spec

Table 1 shows the quick spec.

Model	C1113-8PWE
GE	N/A
GE/SFP combo	1
ADSL2/VDSL2+	1 G.FAST (Annex A)
LTE Advanced (CAT6)	N/A
802.11ac	2X2 MIMO
GE	8
PoE	4
PoE+	2
Integrated USB 3.0 AUX/console	Yes

## Product Details

Table 2 shows the 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.</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.</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, GET VPN, EzVPN</li> <li>● Cisco Umbrella™ security architecture to provide content filtering via category-based URL classification and blocking, thus helping increase productivity and providing better use of company resources.</li> <li>● Enforced security policy with OpenDNS.</li> <li>● Security hardware acceleration.</li> <li>● Trustworthy systems with Field-Programmable Gate Array (FPGA) and hardware anchor.</li> <li>● Encrypted traffic analytics maintain integrity of encrypted flow</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/auxiliary and USB ports.</li> <li>● Can be configured to work with optional USB token.</li> <li>● Supports TR-069.</li> </ul>
Performance <ul style="list-style-type: none"> <li>● Throughput</li> <li>● Service reliability</li> </ul>	<ul style="list-style-type: none"> <li>● Crypto performance up to 250 Mbps for 1100-8P and 150 Mbps for 1100-4P.</li> <li>● A distributed multicore architecture with the industry's first internal services plane.</li> <li>● Remote installation of application-aware services that run identically to their counterparts in dedicated appliances.</li> </ul>
Lower WAN expenditures	<ul style="list-style-type: none"> <li>● Cisco Software-Defined WAN (SD-WAN) (over the Cisco Application Policy Infrastructure Controller Enterprise Module [APIC-EM]) support for optimized WAN connection.</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.</li> </ul>

## Supported Products

Table 3 shows recommended supported products.

Models	Description
<a href="#">C1-SL-1100-8P-APP</a>	AppX Foundation License for Cisco ISR 1100 8P Series
<a href="#">SL-1100-8P-SEC</a>	Security License for Cisco ISR 1100 8P Series
<a href="#">SL-1100-8P-SECNPE</a>	NPE Security License for Cisco ISR 1100 8P Series
<a href="#">C1-SL-1100-8P-SEC</a>	Security Foundation License for Cisco ISR 1100 8P Series
<a href="#">FL-VPERF-8P-200</a>	IPSEC PLUS 200 Mbps License for Cisco ISR 1100 8P Series
<a href="#">GLC-EX-SMD</a>	1000BASE-EX SFP transceiver module, SMF, 1310nm, DOM.
<a href="#">GLC-LH-SMD</a>	GE SFP, LC connector LX/LH transceiver; with DOM.
<a href="#">GLC-SX-MMD</a>	GE SFP, LC connector SX transceiver; with DOM.
<a href="#">GLC-ZX-SMD</a>	1000BASE-ZX SFP; with DOM.
<a href="#">GLC-FE-100ZX</a>	100BASE-ZX SFP (80km).
<a href="#">GLC-BX-D</a>	1000BASE-BX SFP, 1490NM.
<a href="#">GLC-BX-U</a>	1000BASE-BX SFP, 1310NM.

## Compare to Similar Item

Table 4 shows the comparison.

Model	<a href="#">C1112-8PWE</a>	C1113-8PWE
WAN GE	N/A	N/A
WAN GE/SFP combo	1	1
ADSL2/VDSL2+	1 G.FAST (Annex B)	1 G.FAST (Annex A)
LTE Advanced (CAT6)	N/A	N/A
802.11ac	2X2 MIMO	2X2 MIMO
LAN GE	8	8
PoE	4	4

PoE+	2	2
Integrated USB 3.0 AUX/console	Yes	Yes

## Get More Information

Do you have any question about the C1113-8PWE?

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## Specification

C1113-8PWE Specification	
GE	N/A
GE/SFP combo	1
ADSL2/VDSL2+	1 G.FAST (Annex A)
LTE Advanced (CAT6)	N/A
802.11ac	2X2 MIMO
GE	8
PoE	4
PoE+	2
Integrated USB 3.0 AUX/console	Yes
Memory (default and maximum)	DRAM: 4 GB Flash: 4 GB
Console	· Micro USB console (USB 3.0).
Mini-USB port (reserved)	· Micro-USB port to support remote LTE diagnostics and monitoring tools (Qualcomm CAIT and Spirent UDM) (USB 3.0).
802.11ac	<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>
Software	· Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.5 (8.7 for 1101 series) MR1 or later.
DSL interfaces	<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>
External power supply	<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>

<b>USB 3.0</b>	<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>· Note: Devices USB 3.0 supports to be connected externally.</li> </ul>
<b>LEDs</b>	<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>
<b>Physical dimensions (H x W x D)</b>	<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>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>
<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>
<b>Environmental operating range</b>	<ul style="list-style-type: none"> <li>· Nonoperating temperature: -4° to 149°F (-0° 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).</li> <li>· Operating humidity: 10% to 85% relative humidity (noncondensing).</li> <li>· Operating altitude: 0 to 10,000 ft (0 to 3000 m).</li> </ul>

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