



# Cisco 1000 Series Integrated Services Routers

Next-generation connectivity and performance in one platform

## Solution overview

The Cisco® 1000 Series Integrated Services Routers (ISRs) are digital ready routers for enterprise branches and remote sites. They combine the latest technology trends of Wi-Fi and LTE to offer the most flexible branch device. Running on trusted Cisco IOS® XE Software, the 1000 Series ISRs bring your network into the Software-Defined WAN (SD-WAN) era of management. Universal hardware, combined with a best-in-class operating system, allow for a single platform to manage Cisco IOS XE based devices, keep security as a constant throughout the network, and protect data from end to end.

## A digital disruption

The next generation of networking has arrived. Driven by the growth in devices connecting to multiple networks and clouds, large and small enterprises alike demand secure, software-defined networks. Finding the right platform that offers high-performance, next-generation connectivity and ease of provisioning is critical for businesses to succeed and reduce OpEx. The Cisco 1000 Series ISRs combine fast access speeds, comprehensive security, and wireless services in a fixed platform device, all while maintaining compatibility with existing systems. A reliable platform that is easy to deploy and manage means you'll be able to overcome digital disruption seamlessly across the network.

## Benefits

- A multicore architecture provides higher data plane performance, enabling high availability for network services, and premier connectivity options such as Advanced LTE and 802.11ac Wi-Fi provide next-generation WAN technology.
- Use one operating system, Cisco IOS XE, for consistency and visibility, making deployment and manageability easy across all branch offices and remote sites.
- Pay-as-you-grow, IPsec Performance licensing allows for upgrades anytime.
- Integrated Cisco Umbrella™ blocks requests to malicious domains and IP addresses and protects from malware and phishing attacks.
- True zero-touch CPE provisioning eases deployment and management.

The 1000 Series contains various models in both four port and eight port options (see Table 1):

Table 1. 1000 Series ISR models

Feature	C1111X-8P	C111x-8P	C111x-4P	C1101-4PLTEPWx	C1101-4P	C1109-2PLTE	C1109-4PLTE2PWx
<b>Front panel switch ports</b>	8	8	4	4	4	2	4
<b>WAN ports</b>	2 (1 Combo RJ-45/SFP + 1 RJ-45)	2 (1 Combo RJ-45/SFP+1 RJ-45)	2 (1 Combo RJ-45/SFP+1 RJ-45)	1 RJ-45	1 RJ-45	1	1
<b>Console port</b>	Serial RJ-45, Micro USB	Serial RJ-45, Micro USB	Serial RJ-45, Micro USB	Micro USB	Micro USB	Micro USB	Micro USB
<b>DRAM/FLASH</b>	8G/8G	4G/4G	4G/4G	4G/4G	4G/4G	4G/4G	4G/4G
<b>POE (optional)</b>	4PoE/2PoE+	4PoE/2PoE+	2 POE/1 POE+	None	None	None	None
<b>WLAN (optional)</b>	None	802.11ac WAVE 2	802.11ac WAVE 2	802.11ac WAVE 2 (C1101-4PLTEPWx)	None	None	802.11ac WAVE 2 (C1109-4PLTE2PWx)
<b>LTE (optional)</b>	None	4G LTE-Advanced (CAT6) with carrier aggregation	4G LTE-Advanced (CAT6) with carrier aggregation	4G pluggable LTE (CAT4) and pluggable LTE Advanced (CAT6) with carrier aggregation	None	4G pluggable LTE (CAT4)	Dual pluggable modems - 4G pluggable LTE (CAT4) and pluggable LTE Advanced (CAT6) with carrier aggregation
<b>DSL (optional)</b>	None	G.FAST, VDSL2 and ADSL2/2+	VDSL2 and ADSL2/2+	None	None	None	None



## Cisco ONE WAN

### Software subscription for routing

Easily deploy and manage software-defined WAN. Extend intent-based networking to your WAN and drive better user experience, greater agility, and advanced threat protection. You can gain all this with software licenses for our enterprise routing portfolio. [Learn more.](#)

## Key features

Cisco 1000 Series ISRs combine Internet access, comprehensive security, and wireless services in a single high-performance device that is easy to deploy and manage. They are well suited for deployment in small and midsize businesses, in enterprise branch offices, and in managed service provider environments.

The Cisco 1000 Series ISRs come with a 4-port or an 8-port managed switch, providing LAN ports to connect multiple devices.

Key benefits include:

- **Connectivity and high performance:** A multicore architecture provides higher data plane performance, enabling high availability for network services, and premier connectivity options such as LTE Advanced and 802.11ac Wi-Fi provide next-generation WAN technology.
- **Ease of use:** The first fixed-configuration router with trusted Cisco IOS XE software, the 1000 Series allows enterprises to use one operating system for consistency and visibility, making deployment and manageability easy across all branch offices and remote sites. Pay-as-you-grow, IPsec Performance licensing allows for upgrades anytime.
- **Integrated security:** Options like Cisco Umbrella, Encrypted Traffic Analytics and threat defense use high-performance encryption, anomaly detection, and machine learning for a secure WAN and enterprise-class security.

## Why Cisco?

The Cisco 1000 Series ISRs lead in their class, thanks to Cisco IOS XE® Software and Cisco's integrated security, with Cisco Umbrella, higher performance and scalability, better IPsec throughput, and software license models such as AppX, Security, IPsec, and Cisco ONE™. Together, these features help ensure a secure, software-defined WAN, providing reliability and peace of mind.

## Next steps

For more information about the Cisco 1000 Series ISRs, visit <https://www.cisco.com/go/isr1000>. To further compare models, visit <https://www.cisco.com/c/en/us/products/routers/1000-series-integrated-services-routers-isr/compare-model.html>.

## Use cases

Who	Why
Enterprises needing a full-capability branch router requiring low OpEX	The 1000 Series ISRs enable a zero-touch, enterprise-class branch using Cisco DNA Center. See, set, and scale applications over any secure connection with Cisco SD-WAN, and protect against internal and external threats with integrated Cisco security.
Managed Service Providers (MSPs) needing a multiconnectivity CPE router at the perfect price and performance	MSPs can deploy Ethernet WAN services with end-to-end operations, administration, and maintenance. The 1000 Series offers high performance and premier connectivity options for higher access speeds and increased mobility at the right price.
Small businesses and home offices needing a robust, versatile, low-cost router	The 1000 Series is an inexpensive all-in-one solution. Start with the router that meets your needs now and pay as you grow with performance licensing. The first fixed-configuration router with Cisco IOS XE Software means a reliable OS and integrated security for an enterprise-class network.