

Cisco ISR C1121-4P

ISR 1100 SERIES 4-PORT GE DUAL GE/SFP ROUTER

Cisco IOS XE
Multi-Core Fanless Platform

The **Cisco C1121-4P** is an advanced, high-performance branch router in the Cisco ISR 1100 Series architecture. Powered by a multi-core processor running Cisco IOS XE, the C1121-4P delivers enhanced encrypted throughput, integrated 4-port Gigabit Ethernet switching (with optional PoE/PoE+), dual Gigabit Ethernet/SFP combo WAN interfaces, and full Cisco SD-WAN capability in a silent, fanless desktop form factor.

WAN PORTS 2x GE 1x RJ-45 + 1x Combo SFP	LAN PORTS 4x GE 2x PoE / 1x PoE+ Capable	CRYPTO PERFORMANCE Up to 1 Gbps Multi-Core Hardware IPsec	THERMAL / NOISE 0 dBA Passive Cooling / Fanless
---	--	---	---

KEY PLATFORM HIGHLIGHTS

Cisco SD-WAN Integration Full support for Cisco Catalyst SD-WAN architecture, delivering zero-touch provisioning (ZTP), central cloud management via vManage, and dynamic application-aware routing.	Multi-Core Processing Power Next-generation compute hardware architecture (C1120 series platform) optimized for high concurrent IPsec tunnels, deep packet inspection, and cloud edge routing.
Integrated PoE / PoE+ Options Supports internal power injection to power up to 2x 802.3af PoE or 1x 802.3at PoE+ powered devices directly (IP phones, wireless APs, IP cameras).	Trustworthy Systems Architecture Hardware-anchored Secure Boot, Trust Anchor Module (TAM), cryptographically signed image verification, and Encrypted Traffic Analytics (ETA).

SYSTEM HARDWARE & INTERFACE SPECIFICATIONS

Component	Specification Details
WAN Interfaces	1x Dedicated 10/100/1000 RJ-45 + 1x Combo Port (10/100/1000 RJ-45 or SFP Optical Transceiver)
LAN Switch Ports	4x 10/100/1000 Managed Gigabit Ethernet ports (Layer 2 switching, 802.1Q VLAN support)
Inline Power (PoE)	Optional internal PoE module supporting 2x PoE (802.3af) or 1x PoE+ (802.3at) ports
System Memory (RAM)	4 GB DRAM (DDR4) default
Flash Memory	4 GB eMMC Flash storage default
Console Ports	1x Micro-USB Console Port (Type-B) + 1x Standard RJ-45 Aux/Console Port
USB Interface	1x USB 3.0 Type-A host port for external storage and security tokens

PERFORMANCE & SCALABILITY BENCHMARKS

Performance Metric	Capacity	Deployment Context
CEF IPv4 / IPv6 Routing	Up to 1 Gbps	Unencrypted routing throughput across Gigabit interfaces
IPsec Encrypted Throughput	High Performance	Multi-core hardware crypto engine acceleration (1400-byte packets)
Concurrent IPsec Tunnels	Up to 200 Tunnels	Maximum scalable active encrypted site-to-site VPN tunnels
Stateful Sessions / NAT	100,000 Sessions	Concurrent stateful firewall and NAT sessions
VLAN Support	Up to 32 VLANs	IEEE 802.1Q tagged VLAN segmentation

NETWORKING, SECURITY & ENTERPRISE SOFTWARE

Supported Cisco IOS XE & Security Capabilities

Cisco IOS XE 16.6.1+ BGP4 / MP-BGP OSPFv3 EIGRP VRF-Lite DMVPN / GETVPN FlexVPN IPsec AES-256
Zone-Based Firewall Encrypted Traffic Analytics (ETA) HQoS Cisco Umbrella NetFlow / IPFIX SNMPv3

PHYSICAL, POWER & ENVIRONMENTAL SPECIFICATIONS

Parameter	Value / Specification
Dimensions (H x W x D)	1.65 x 12.7 x 8.9 in. (41.9 x 322 x 226 mm) - 1RU Desktop Chassis
Unit Weight	3.4 lbs (1.55 kg)
Input Voltage	Universal AC Power Adapter: 100 to 240 VAC (50 to 60 Hz)
Power Supply Specs	66W default external AC adapter / 115W adapter required for PoE models
Operating Temperature	32°F to 104°F (0°C to 40°C) at sea level
Operating Humidity	5% to 95% non-condensing relative humidity
Acoustic Noise	0 dBA (Fanless silent operation)
MTBF	680,590 Hours
Safety & Compliance	UL 60950-1, CAN/CSA C22.2 No. 60950-1, EN 60950-1, FCC Part 15 Class A, EN 55032

TARGET DEPLOYMENT SCENARIOS

- Enterprise Small Branch Offices:** Secure WAN routing with multi-core performance for cloud applications (SaaS/IaaS) and IP telephony support via PoE.
- Managed SD-WAN Customer Premise Equipment (CPE):** Ideal CPE device for Service Providers delivering cloud-managed SD-WAN connectivity with zero-touch provisioning.
- Noise-Sensitive Environments:** Complete fanless passive cooling design allows deployment in medical clinics, retail store counters, quiet offices, and executive home desks.
- Secure Remote Branch / Teleworker:** Offers enterprise DMVPN and hardware IPsec encryption back to enterprise campus data centers.