

Cisco ISR C1161X-8P

HIGH-PERFORMANCE X-SERIES BRANCH ROUTER

Cisco IOS XE
8GB RAM / High-Crypto Engine

The **Cisco C1161X-8P** is an enterprise-class X-Series Integrated Services Router designed for medium-to-large branch office deployments requiring high encryption performance, application visibility, integrated switching, and silent fanless operation. Powered by Cisco IOS XE, it seamlessly blends high-speed Gigabit WAN connectivity, 8-port GE switching with PoE/PoE+, and advanced Cisco SD-WAN architecture.

MEMORY ARCHITECTURE

8 GB DRAM

8 GB eMMC Flash

LAN SWITCHING

8x GE

4x PoE / 2x PoE+ Ports

CRYPTO PERFORMANCE

Up to 1.5 Gbps

X-Series Accelerator

ACOUSTICS / THERMAL

0 dBA

Fanless Quiet Design

KEY PLATFORM FEATURES & HIGHLIGHTS

Advanced Multi-Core Architecture

Doubled system memory (8 GB DRAM / 8 GB Flash) enables containerized application hosting (Cisco IOx), advanced telemetry, and memory-intensive security features.

High-Density LAN Switch with PoE

Integrated 8-port Gigabit switch with PoE capability (up to 4 ports IEEE 802.3af PoE or 2 ports 802.3at PoE+), powering IP phones, Wi-Fi 6 APs, and cameras.

Native Cisco Catalyst SD-WAN

Centralized cloud orchestration via Cisco vManage, zero-touch deployment (ZTP), dynamic multi-path steering, and automated SaaS application optimization.

Hardware-Anchored Security Stack

Includes Cisco Trust Anchor Module (TAM), Secure Boot, Encrypted Traffic Analytics (ETA), Snort IPS, MACsec, and direct Cisco Umbrella integration.

SYSTEM HARDWARE SPECIFICATIONS

Component	Specification Details
WAN Interfaces	1x Dedicated 10/100/1000 Ethernet (RJ-45) + 1x Combo Port (10/100/1000 RJ-45 or SFP Optical)
LAN Interfaces	8x 10/100/1000 Managed Gigabit Ethernet Switch Ports (Layer 2 Switching)
Inline Power (PoE Budget)	Supports up to 4x 802.3af (PoE) ports or 2x 802.3at (PoE+) ports with external power supply
System Memory (DRAM)	8 GB DDR4 default
Storage (Flash)	8 GB eMMC onboard Flash memory
Console Ports	1x Micro-USB Console Port + 1x Standard RJ-45 Console/Auxiliary Port
External Storage	1x USB 3.0 Type-A high-speed host port for configuration files, logs, and updates

PERFORMANCE METRICS & SYSTEM BENCHMARKS

Metric	Capacity	Description / Conditions
IPsec Crypto Throughput	Up to 1.5 Gbps	Hardware-accelerated IPsec encryption (1400-byte packets)
SD-WAN IPsec Throughput	Up to 1.1 Gbps	Active Cisco SD-WAN fabric encryption with multi-path routing
Maximum Concurrent Sessions	200,000 Sessions	Stateful NAT / Firewall connection capacity
Dynamic IPsec Tunnels	Up to 1,000 Tunnels	Maximum concurrent DMVPN / IPsec site-to-site tunnels

SOFTWARE FEATURES & ADVANCED SECURITY STACK

Cisco IOS XE Security & Routing Protocols						
Cisco IOS XE 17.x	BGP4 / MP-BGP	OSPFv3	EIGRP	IS-IS	IPsec 3DES / AES-256	Zone-Based Firewall
Snort IPS	MACsec (802.1AE)	Cisco Umbrella DNS	Encrypted Traffic Analytics	HQoS / NBAR2		

POWER, PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification Details
Physical 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
Weight	3.6 lbs (1.63 kg)
Power Supply Architecture	External AC Power Adapter (Input: 100 to 240 VAC, 50 to 60 Hz)
Power Consumption	Nominal: 28W Fully Loaded with PoE Max: 115W
Operating Temperature	32°F to 104°F (0°C to 40°C) at sea level
Storage Temperature	-40°F to 149°F (-40°C to 65°C)
Relative Humidity	5% to 95% non-condensing relative humidity
Acoustic Noise	0 dBA (Fanless silent operating architecture)

DEPLOYMENT SCENARIOS & ORDERING INFORMATION

Target Deployment Scenarios Ideal for high-throughput enterprise branch locations, financial branch offices, healthcare clinics, and noise-sensitive open office environments needing zero acoustic footprint.	Ordering & Accessory Options Part Number: C1161X-8P Power: 115W AC Power Supply (PWR-115W-AC) Rack Mount: 19-inch Rack Mount Kit (ACS-1100-RM-19)
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