

Cisco Catalyst C9800-L-C-K9

Enterprise Wireless Controller — Copper Uplinks Variant

TECHNICAL DATASHEET



Cisco Catalyst C9800-L Controller Front View

Cisco Catalyst 9800-L Wireless Controller (Compact 1RU Hardware Chassis)

Product Overview: The Cisco Catalyst 9800-L-C-K9 is a purpose-built, highly reliable wireless controller tailored for small to midsize enterprise deployments. Built on Cisco IOS XE, it pairs seamless wireless telemetry, advanced security features, and High Availability Stateful Switchover (SSO) with flexible copper uplinks.

KEY ARCHITECTURAL FEATURES

CISCO IOS XE OPERATING SYSTEM

Modern open OS delivering hot patching, modularity, programmable APIs, streaming telemetry, and robust security architecture.

HIGH AVAILABILITY & RESILIENCE

Stateful Switchover (SSO) active/standby pairing with dedicated 1G RP interface guarantees zero downtime during node failures.

COPPER UPLINK VERSATILITY

Equipped with 4x Multigigabit (2.5G/1G RJ-45) interfaces to integrate effortlessly into standard RJ-45 copper network backbones.

FLEXIBLE DEPLOYMENTS

Native support for Centralized (Local), Cisco FlexConnect, and Fabric Wireless (SD-Access) topology configurations.

SCALE & PERFORMANCE SPECIFICATIONS

Maximum Access Points	Up to 250 Access Points (Wi-Fi 5, Wi-Fi 6/6E, Wi-Fi 7)
Maximum Concurrent Clients	Up to 5,000 Concurrent Clients
Maximum Throughput	Up to 5 Gbps aggregate throughput
Maximum WLANs	4,096 WLANs / SSIDs
Site Tags & FlexConnect	Up to 250 FlexConnect groups; 100 APs per FlexConnect group

HARDWARE & INTERFACE SPECIFICATIONS

Uplink Interfaces	4x 2.5G / 1G Multigigabit Ethernet (RJ-45 Copper)
Management Port	1x 10/100/1000M RJ-45 Ethernet management port
Redundancy Port (RP)	1x 10/100/1000M RJ-45 dedicated SSO pairing port
Console & Auxiliary	1x RJ-45 Serial Console, 1x Micro-USB Console, 1x USB 3.0 Port
Form Factor	1RU Fixed Compact Chassis (Rack-mountable with mounting kit)

POWER, THERMAL & PHYSICAL CHARACTERISTICS

Dimensions (H x W x D)	4.39 cm x 26.9 cm x 22.8 cm (1.73 in. x 10.6 in. x 9.0 in.)
System Weight	1.98 kg (4.37 lbs)
Power Supply Unit	External 110W AC adapter (100V to 240V AC, 50-60 Hz)
Power Consumption	~86W max system power draw (~110W peak adapter capacity)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Acoustic Noise	Fan-cooled, low-noise design suitable for office and lab environments

SECURITY, TELEMETRY & MANAGEMENT

- **Advanced Security:** WPA3 Enterprise, Encrypted Traffic Analytics (ETA), Cisco TrustSec, Rogue Detection, and WIPS integration.
- **Telemetry & Analytics:** Model-driven telemetry over NETCONF/RESTCONF, gRPC, and SNMP v1/v2c/v3 support.
- **Centralized Management:** Full lifecycle orchestration via Cisco Catalyst Center (DNA Center) and Cisco Prime Infrastructure.
- **Software Maintenance:** In-Service Software Upgrade (ISSU), AP Service Packs, and Hot Patching minimize maintenance windows.