

Cisco Catalyst 9800-L

Wireless Controller (Fiber Uplinks) | SKU: C9800-L-F-K9

SMALL-TO-MID CAMPUS

Executive Overview

The Cisco Catalyst 9800-L-F-K9 is a feature-rich, compact wireless controller tailored for small-to-medium enterprise campuses and branch deployments. Featuring fixed 10G SFP+ Fiber uplinks and powered by open Cisco IOS XE, it provides seamless software upgrades, enterprise-grade security, and high reliability in a compact 1RU half-width form factor.

SYSTEM SCALABILITY & PERFORMANCE PROFILE

250 APs

MAX ACCESS POINTS (500 FLEXCONNECT)

5,000

MAX CONCURRENT CLIENTS

5 Gbps

MAXIMUM THROUGHPUT

4,096

MAX WLANS / SSIDS

HARDWARE CONNECTIVITY & INTERFACE SPECIFICATIONS

Component	Specification Details
Uplink Ports	2x 10G / 1G SFP+ / SFP Fiber Uplinks
Access / Multigigabit Ports	4x 2.5G / 1G / 100M mGig RJ-45 Ports
Dedicated HA Port	1x 10/100/1000M RJ-45 High Availability Interface
Management Port	1x 10/100/1000M RJ-45 Out-of-band Management
Console Interfaces	1x RJ-45 Serial Console, 1x Micro-USB Console Port
USB Port	1x USB 3.0 Host Interface
Form Factor	1RU Half-Width Desktop / Rack-Mountable (Optional Rack Kit)

KEY DEPLOYMENT MODES

- Centralized Campus:** Full CAPWAP control and data tunneling back to the controller.
- FlexConnect Mode:** Local switching with central/local authentication for up to 500 APs.
- Fabric Wireless (SD-Access):** Integrated control plane for Software-Defined Access architectures.

PHYSICAL & POWER SPECIFICATIONS

Parameter	Specification
Dimensions (H x W x D)	1.58 in x 8.5 in x 9.06 in (4.02 cm x 21.59 cm x 23.01 cm)
Unit Weight	3.95 lbs (1.79 kg)
Power Supply	External 110W AC Power Adapter (Redundant External PSU option)
Max Power Consumption	86.9W (Maximum)
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Relative Humidity	10% to 90% non-condensing

HIGH AVAILABILITY & RESILIENCE

Capability	Feature Details
Stateful Switchover (SSO)	Active-Standby Pair with sub-second failover for AP and Client sessions via HA port.
Software Patching	Software Maintenance Upgrades (SMUs) allow critical bug fixes without whole OS reboots.
Rolling AP Upgrades	Staggered access point rebooting ensures continuous wireless coverage during software upgrades.

SECURITY & NETWORK AUTOMATION

- **Advanced Security:** WPA3 support, Cisco Trust Anchor Module (TAM), Rogue Detection, and Cisco TrustSec.
- **Application Visibility:** NBAR2 engine for Layer 7 application classification and QoS policy enforcement.
- **Automation & Orchestration:** Managed via Cisco Catalyst Center (DNA Center), WebUI, CLI, and NETCONF/YANG APIs.

Ordering & Licensing Information

The **C9800-L-F-K9** features SFP+ fiber uplinks. If 10GBase-T Copper uplinks are needed, specify model **C9800-L-C-K9** instead. AP management requires Cisco DNA Essentials or Cisco DNA Advantage subscriptions.