

Cisco Catalyst 9800-80

Modular Wireless Controller Data Sheet | SKU: C9800-80-K9

LARGE CAMPUS CLASS

Executive Overview

The Cisco Catalyst 9800-80 is a ultra-high scale, modular wireless controller designed for large enterprise campuses and service provider deployments. Built on open Cisco IOS XE with a dedicated 30 Gbps crypto engine, it supports modular uplinks up to 100G with seamless operational continuity.

SYSTEM SCALABILITY & PERFORMANCE

6,000

MAX ACCESS POINTS (APS)

64,000

MAX CONCURRENT CLIENTS

80 Gbps

MAXIMUM THROUGHPUT

4,096

MAX WLANS / SSIDS

HARDWARE CONNECTIVITY & ARCHITECTURE

Component	Specification Details
Fixed Uplink Ports	8x 10G SFP+ or 6x 10G + 2x 1G SFP interfaces
Modular Uplink Bay	1x Ethernet Port Adapter (EPA) slot supporting 10G, 40G, or 100G uplink modules
Management Ports	1x 10/100/1000M RJ-45 Ethernet management port
Redundancy Ports (HA)	1x RJ-45 HA port + 1x 1G SFP HA interface (Stateful Switchover)
Console & USB Ports	1x RJ-45 Serial Console, 1x Mini-USB Console, 2x USB 3.0 Ports
Storage & Crypto	32 GB Bootflash, SATA SSD Slot, 30 Gbps Hardware Crypto Processor
Form Factor	2 Rack Units (2RU) Rack-mountable Modular Chassis

KEY DEPLOYMENT & OPERATING MODES

- Operating System:** Open, programmable Cisco IOS XE with telemetry and patching support.
- Deployment Options:** Centralized Campus, Cisco FlexConnect, Fabric Wireless (SD-Access), and Mesh modes.
- High Availability:** Sub-second Stateful Switchover (SSO) with redundant RP interfaces and Hot-swappable SMUs.

POWER, THERMAL & PHYSICAL SPECIFICATIONS

Parameter	Specification
Power Supply Options	Dual Redundant Hot-Swappable 1100W AC or 950W DC Power Supplies
Max Power Consumption	600W (with optional uplink modules installed)
Heat Dissipation	2047 BTU/hr maximum
Dimensions (H x W x D)	3.5 in x 17.3 in x 22.0 in (8.89 cm x 43.9 cm x 55.8 cm)
Chassis Weight	~34 lbs (15.4 kg) fully loaded
Airflow & Cooling	Front-to-back airflow with 4 internal fan modules

OPTIONAL MODULAR UPLINK ADAPTERS (EPA BAY)

Module PID	Description
C9800-1X100GE	1-Port 100 Gigabit Ethernet EPA Module
C9800-2X40GE	2-Port 40 Gigabit Ethernet EPA Module
C9800-10X10GE	10-Port 10 Gigabit Ethernet EPA Module
C9800-18X1GE	18-Port 1 Gigabit Ethernet EPA Module

SECURITY & NETWORK AUTOMATION

- **Hardware Security:** Integrated Cisco Trust Anchor Module (TAM) with secure boot and anti-counterfeit protection.
- **Threat Defense:** Encrypted Traffic Analytics (ETA) for inspecting encrypted sessions without payload decryption.
- **Management Options:** Cisco Catalyst Center (DNA Center), WebUI, CLI, SNMP, and open APIs (NETCONF/YANG).

Licensing & Subscriptions

Requires Cisco DNA Software Subscriptions (Cisco DNA Essentials or Cisco DNA Advantage) per Access Point, enabling centralized network automation, AI assurance, and security policies.