

Cisco Catalyst CW9164I

High-Density Wi-Fi 6E 4x4 Access Point (CW9164I-B)

FCC DATASHEET

Product Overview: The Cisco Catalyst CW9164I-B Access Point is engineered specifically for the North American Regulatory Domain (FCC - US / ISCED - Canada). Built for demanding high-density enterprise environments, it features dual 4x4 MU-MIMO radios in 5 GHz and 6 GHz bands, delivering up to 7.49 Gbps aggregate physical data throughput with management options for Cisco Catalyst On-Premises or Cisco Meraki Cloud.

KEY CAPABILITIES & FEATURES

4x4 MU-MIMO Wi-Fi 6E Performance

- **FCC 6 GHz Spectrum:** Unlocks UNII-5 through UNII-8 bands for clean, low-latency performance.
- **High Stream Capacity:** 4x4:4 MU-MIMO on 5 GHz & 6 GHz, 2x2:2 on 2.4 GHz.
- **Max Aggregate Throughput:** Up to 7.49 Gbps total physical data rate.

Dual Management Architecture

- **Meraki Cloud Managed:** Intuitive web dashboard, zero-touch provisioning, and deep insights.
- **Catalyst Controller Managed:** Enterprise control via Cisco Catalyst Controllers & DNA Center.
- **Operational Agility:** Migrate management modes seamlessly without replacing hardware.

Enterprise IoT & Location

- **BLE 5.1 & Zigbee:** Native IoT integration for asset tracking, beacons, and smart sensors.
- **Dedicated Scanning Radio:** Full-time security scanning and RF threat detection.
- **Cisco CleanAir Pro:** Multi-band automated RF interference identification and mitigation.

Security & Hardware Features

- **WPA3 Encryption:** Complete security compliance across 2.4 GHz, 5 GHz, and 6 GHz bands.
- **2.5G Multigigabit Uplink:** High-speed RJ-45 Ethernet uplink preventing system bottlenecks.
- **Hardware Trust Anchor:** Secure Boot architecture preventing unauthorized firmware execution.

HARDWARE SPECIFICATIONS

Parameter	Specification
Model Number	CW9164I-B (US / Canada / FCC Regulatory Domain)
Wireless Standards	IEEE 802.11ax (Wi-Fi 6E), 802.11a/b/g/n/ac compatible
Radio Configuration	2.4 GHz (2x2), 5 GHz (4x4), 6 GHz (4x4) + Dedicated Scanning Radio

INTERFACE & PHYSICAL OVERVIEW



CW9164I Rear Ports and Interface View

Figure 1: Rear interface layout showing 2.5G Multigigabit RJ-45 uplink, Console, USB, and DC Power ports.

POWER REQUIREMENTS & OPERATING MODES

Power Source	Functional Level	Operational Details
802.3at (PoE+) / 802.3bt	Full Operational Mode	All radios active (2.4G 2x2, 5G 4x4, 6G 4x4), full 2.5G Ethernet, USB active.
802.3af (PoE)	Reduced Functionality	6 GHz radio disabled or degraded, 5 GHz reduced to 2x2, USB port disabled.
DC Power Input	Full Operational Mode	12V DC auxiliary input connector.

PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

Metric	Details
Dimensions (W x L x H)	24.1 cm x 24.1 cm x 4.9 cm (9.5 in. x 9.5 in. x 1.9 in.)
Weight	1.6 kg (3.5 lbs)
Operating Temperature	0°C to 50°C (32°F to 122°F)
Non-Operating Temp.	-30°C to 70°C (-22°F to 158°F)
Operating Humidity	10% to 90% (non-condensing)
System Memory	2 GB DRAM / 1 GB Flash Memory

REGULATORY & REGIONAL COMPLIANCE (-B)

FCC / North American Domain (-B): The **CW9164I-B** model is compliant with **US FCC** and **Canadian ISSED** regulations. It supports full UNII-5 through UNII-8 6 GHz spectrum allocation for North American Wi-Fi 6E deployments.