

Cisco Catalyst CW9162I

Wi-Fi 6E Tri-Band Access Point (CW9162I-B)

FCC DATASHEET

Product Overview: The Cisco Catalyst CW9162I-B Access Point is tailored specifically for the North American Regulatory Domain (FCC - US / ISSED - Canada). Delivering enterprise-grade Wi-Fi 6E performance, it features dual-management capabilities allowing deployment via either Cisco Catalyst (WLC) or Cisco Meraki Cloud architecture.

KEY CAPABILITIES & FEATURES

Tri-Band Radio Architecture

- **Wi-Fi 6E Spectrum:** Unlocks clean, wide 6 GHz channels complying with FCC and ISSED spectrum allocations.
- **Simultaneous Tri-Band:** Concurrent 2.4 GHz, 5 GHz, and 6 GHz radio operation.
- **Aggregate Rate:** Delivers up to 3.9 Gbps total PHY data throughput.

Dual Management Flexibility

- **Meraki Cloud Managed:** Intuitive cloud administration, zero-touch deployment, and live telemetry.
- **Catalyst On-Premises:** Robust control via Cisco Catalyst Controllers & Cisco DNA Center.
- **Cloud Architecture:** Seamlessly switch management engines without replacing hardware.

Integrated IoT & Location

- **Bluetooth Low Energy (BLE 5.1):** Built-in support for asset tracking and indoor positioning.
- **802.15.4 (Zigbee):** Native IoT gateway integration for modern smart building sensors.
- **Dedicated Scanning Radio:** Continuous spectrum monitoring and threat intelligence.

Security & Optimization

- **WPA3 Encryption:** Enterprise-class security across 2.4 GHz, 5 GHz, and 6 GHz bands.
- **Cisco CleanAir Pro:** Automated RF management and multi-band interference mitigation.
- **Hardware Trust Anchor:** Secure Boot architecture preventing unauthorized firmware execution.

HARDWARE SPECIFICATIONS

Parameter	Specification
Model Number	CW9162I-B (US / Canada / FCC Regulatory Domain)
Wireless Standard	IEEE 802.11ax (Wi-Fi 6E), backward compatible with 802.11a/b/g/n/ac
MIMO / Spatial Streams	2x2:2 MU-MIMO on 2.4 GHz, 5 GHz, and 6 GHz radios
Ethernet Uplink	1x 100/1000/2.5G Multigigabit Ethernet (RJ-45)

INTERFACE & PHYSICAL OVERVIEW



CW9162I Rear Ports and Interface View

Figure 1: Rear interface diagram showcasing Multigigabit Ethernet port, Console connection, USB port, and DC power input.

POWER REQUIREMENTS & OPERATING MODES

Power Source	Functional Level	Operational Notes
802.3at (PoE+)	Full Operational Mode	All 3 radios active (2.4 GHz, 5 GHz, 6 GHz), USB port enabled (4.5W max).
802.3af (PoE)	Reduced Functionality	6 GHz radio disabled or reduced; USB port powered off.
DC Power Input	Full Operational Mode	12V DC auxiliary input connector.

PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

Metric	Details
Dimensions (W x L x H)	20.3 cm x 20.3 cm x 4.2 cm (8.0 in. x 8.0 in. x 1.6 in.)
Weight	0.9 kg (2.0 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 Regulatory Domain (-B): The **CW9162I-B** model is compliant with **US FCC (Federal Communications Commission)** and **Canadian ISED** regulations. It supports full UNII-5 through UNII-8 bands (5.925 GHz to 7.125 GHz) in accordance with North American Wi-Fi 6E spectral rules.