

Cisco Catalyst CW9164I

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

DATASHEET

Product Overview: The Cisco Catalyst CW9164I Access Point is engineered for high-density enterprise environments demanding ultra-fast performance and seamless reliability. Featuring 4x4 MU-MIMO radios in 5 GHz and 6 GHz bands, it delivers an impressive aggregate throughput of up to 7.49 Gbps, supported by Cisco Catalyst On-Premises or Cisco Meraki Cloud architecture.

KEY CAPABILITIES & FEATURES

4x4 MU-MIMO Wi-Fi 6E Performance

- Massive Throughput:** Up to 7.49 Gbps aggregate tri-radio physical data rate.
- 4x4 Spatial Streams:** 4x4:4 MU-MIMO on 5 GHz & 6 GHz, 2x2:2 on 2.4 GHz.
- Clean Spectrum:** Access to uncrowded 6 GHz spectrum for low latency applications.

Dual Management Operating Modes

- Meraki Cloud Management:** Intuitive web dashboard, instant network insights, and remote scale.
- Catalyst On-Premises:** High-density control via Cisco Catalyst Wireless Controllers & DNA Center.
- Investment Protection:** Change management modes on-demand without hardware upgrades.

Enterprise IoT & Location

- BLE 5.1 & Zigbee:** Native support for indoor location tracking, beacons, and IoT sensors.
- Dedicated 4th Radio:** Full-time security scanning radio for real-time WIDS/WIPS protection.
- Cisco CleanAir Pro:** Automated RF interference mitigation across 2.4G, 5G, and 6G.

Advanced Security & Hardware

- WPA3-Enterprise:** Highest standard encryption for dense client deployments.
- Multigigabit Uplink:** 1x 2.5 Gbps Ethernet uplink preventing network bottlenecks.
- Hardware Trust Anchor:** Secure Boot and anti-counterfeiting platform protection.

HARDWARE SPECIFICATIONS

Parameter	Specification
Model Number	CW9164I-ROW (Rest of World 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
Ethernet Uplink	1x 100/1000/2.5G Multigigabit Ethernet (RJ-45)
Control & USB Ports	1x Mini-USB Control Port, 1x USB 3.0 Host Port (ports 4 EMI)

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 options.

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 port 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 adapter.

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 DOMAIN (-ROW)

Rest of World Domain (-ROW): The **CW9164I-ROW** model is designed for global enterprise deployments outside North America and Europe. It automatically adjusts transmit power and 6 GHz channel availability according to local country regulatory frameworks.