

Cisco Catalyst CW9164I

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

ETSI DATASHEET

Product Overview: The Cisco Catalyst CW9164I-E Access Point is specifically calibrated for the European Regulatory Domain (ETSI). Built for 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 throughput, supported by either Cisco Catalyst On-Premises or Cisco Meraki Cloud architecture.

KEY CAPABILITIES & FEATURES

4x4 MU-MIMO Wi-Fi 6E Performance

- ETSI 6 GHz Band:** Complies with European 6 GHz spectrum guidelines for ultra-low latency.
- High Stream Capacity:** 4x4:4 MU-MIMO on 5 GHz & 6 GHz, 2x2:2 on 2.4 GHz.
- Aggregate Rate:** Up to 7.49 Gbps total physical data rate.

Dual Management Operating Modes

- Meraki Cloud Managed:** Centralized dashboard, cloud monitoring, and rapid deployment.
- Catalyst On-Premises:** High-density operational control via Catalyst Controllers & DNA Center.
- Flexibility:** Transition management modes on demand without changing hardware.

Enterprise IoT & Location Services

- BLE 5.1 & Zigbee:** Integrated radios for indoor positioning, beacons, and smart sensors.
- Dedicated Scanning Radio:** Continuous spectrum monitoring and threat detection.
- Cisco CleanAir Pro:** Automated multi-band RF interference identification and mitigation.

Security & Hardware Infrastructure

- WPA3 Encryption:** Advanced security across 2.4 GHz, 5 GHz, and 6 GHz spectrum.
- 2.5G Multigigabit Uplink:** High-speed RJ-45 Ethernet port eliminating bandwidth bottlenecks.
- Trust Anchor Module:** Hardware-rooted Secure Boot protecting against rogue firmware.

HARDWARE SPECIFICATIONS

Parameter	Specification
Model Number	CW9164I-E (European / ETSI 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)
Console & USB Ports	1x Micro-USB Console Port, 1x USB 2.0 Host Port (up to 4.5W)
Antenna Type	Internal high-gain omnidirectional antennas (ETSI compliant)

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 (-E)

European Regulatory Domain (-E): The CW9164I-E model complies with ETSI (European Telecommunications Standards Institute) regulations, supporting 5945–6425 MHz 6 GHz channels across European Union countries, the UK, and ETSI-compliant regions.