



/ DATA SHEET

Celona high-density Wi-Fi 7 access point WAP14

High-density enterprise Wi-Fi 7, unified with
Private 5G through the Celona Orion platform.



/ AT A GLANCE

WIRELESS TYPE	Wi-Fi 7 (IEEE 802.11be), concurrent tri-band, up to 4x4:4
DEPLOYMENT	Indoor
BANDS	2.4 / 5 / 6 GHz
MAX PHY RATE	Up to 18 Gbps aggregate
IP RATING	IP41
MANAGEMENT	Celona Orchestrator (unified with Private 5G)

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01 Overview

The WAP14 is a high-density indoor Wi-Fi 7 access point in the Celona Orion platform, built for enterprise and industrial environments with demanding capacity needs. Its 4×4:4 MU-MIMO radios on 5 and 6 GHz deliver added headroom for high-density laptops, tablets, scanners, printers, engineering workstations, fixed OT devices, and docked robots – while Celona Private 5G addresses pervasive mobility and mission-critical operations. Managed through Celona Orchestrator, WAP14 extends Celona's converged wireless operating model with common site hierarchy, inventory, onboarding, security policy, telemetry, alarms, client timelines, firmware lifecycle, and SSID-to-MicroSlice policy mapping – purpose-built high-density Wi-Fi for the workloads where Wi-Fi performs best, unified with Private 5G under one enterprise wireless platform.

02 Key benefits

The WAP14 is a high-density enterprise Wi-Fi 7 access point managed through Celona Orchestrator, bringing high-capacity tri-band connectivity and Private 5G together under one converged wireless platform. Concurrent 2.4, 5, and 6 GHz radios – with 4×4:4 MU-MIMO on 5 and 6 GHz, 10 spatial streams, 4K-QAM, OFDMA, MLO, and up to 320 MHz channels – deliver up to 18 Gbps aggregate for demanding enterprise and industrial deployments.

High-density Wi-Fi 7 performance

Concurrent 2.4, 5, and 6 GHz radios with 4×4:4 MU-MIMO on 5 and 6 GHz, 4K-QAM, OFDMA, MLO, and up to 320 MHz channels deliver added capacity for high-density enterprise and industrial deployments – up to 18 Gbps aggregate PHY rate.

One platform for Wi-Fi and Private 5G

Celona Orchestrator provides a unified operational experience across sites, devices, inventory, alarms, lifecycle, policy, and troubleshooting – one platform spanning Wi-Fi and Private 5G.

Application-aware Micro-Slicing

Map Wi-Fi SSIDs and device policies into Celona MicroSlices to apply consistent business intent and application priority across the converged wireless environment.

Flexible enterprise security

Supports traditional Wi-Fi authentication – WPA2/WPA3, dynamic and multiple pre-shared keys (DPSK/MPSK), MAC-based authentication, and Wi-Fi Enhanced Open (OWE) – with RADIUS, NAC, and captive-portal integration.

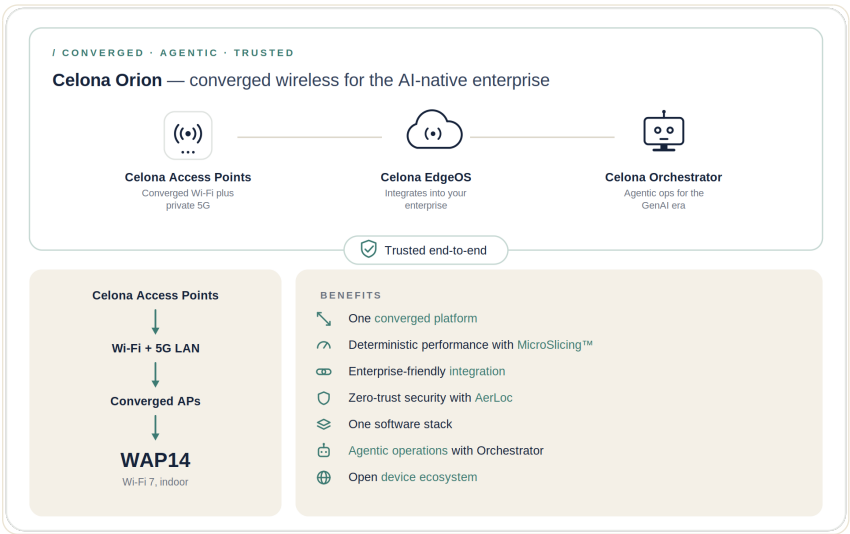
Simple cloud-first deployment

Use existing Celona serial and bulk onboarding workflows, site assignment, certificate-based discovery, centralized configuration, and fleet-wide software lifecycle management.

Industrial-ready indoor design

Fanless IP41 enclosure, internal antennas, ceiling / wall / T-bar mounting, and multi-gig PoE power simplify deployment in manufacturing, warehousing, and distributed enterprise sites.

03 Celona Orion platform



Celona Orion brings enterprise Wi-Fi and Private 5G together as one intelligent wireless fabric: use WAP14 for high-density indoor connectivity and Celona Private 5G for deterministic mobility, pervasive coverage, and mission-critical applications – each radio technology used where it fits best, with shared visibility, policy, and lifecycle workflows and no separate operational silos.

04 Specifications

HIGH LEVEL

Product Type	Indoor concurrent tri-band Wi-Fi 7 access point
Wireless Standards	IEEE 802.11a/b/g/n/ac/ax/be
Radio Configuration	2×2:2 on 2.4 GHz; 4×4:4 on 5 GHz; 4×4:4 on 6 GHz (10 spatial streams total, MU-MIMO)
Aggregate PHY Rate	Up to 18 Gbps: 689 Mbps (2.4 GHz), 5.765 Gbps (5 GHz), 11.53 Gbps (6 GHz)
Channel Bandwidth	2.4 GHz: 20/40 MHz; 5 GHz: 20/40/80/160 MHz; 6 GHz: 20/40/80/160/320 MHz
Aggregate Conducted TX Power	Up to 24 dBm (2.4 GHz), 27 dBm (5 GHz), 27 dBm (6 GHz); aggregated across MIMO chains, excludes antenna gain; regulatory limits apply
Internal Antenna Gain	5 dBi (2.4 GHz); 6 dBi (5 GHz); 6 dBi (6 GHz); 4 dBi BLE
Max Power Consumption	TBD (preliminary)
Dimensions (L×W×H)	Est. 225 × 230 × 40 mm (preliminary)
Weight	TBD (preliminary)
IP Rating	IP41 (fanless enclosure)
Operating Environment	0°C to 50°C; 0–95% non-condensing humidity
Storage Environment	TBD (preliminary)
Mounting	Ceiling, wall, wall-plate, or T-bar; mounting kit included
Integrated IoT Radios	Bluetooth Low Energy and Zigbee

PORTS & INTERFACES

Uplink Port	1× 100M/1000/2500/5000/10000BASE-T RJ-45, Auto-MDIX, with IEEE 802.3bt/at PoE
Additional Interfaces	1× USB Type-C; 1× RJ-45 console port
Optional Power Input	DC input, 12V (power adapter not included)
Indicators & Controls	Tri-color status LED (power/cloud/uplink); restart/reset button; Kensington lock slot

COMPLIANCE & FREQUENCY	
Frequency Ranges	2.401–2.483 GHz; 5.170–5.835 GHz; 5.925–7.125 GHz (subject to local regulation)
Regulatory Certifications	Country-specific certifications and 6 GHz operation subject to final SKU and regulatory approval

Maximum transmit power, channels, 6 GHz availability, and certifications vary by country and regulatory domain. Fields marked TBD/Est. reflect the preliminary status of the underlying hardware platform and will be finalized ahead of general availability.

WI-FI & MOBILITY	
OFDMA and BSS coloring	802.11k/v/r fast roaming
Open Mesh	Target Wake Time (TWT)
Client isolation and multicast-to-unicast conversion	RSSI-threshold based client filtering

AUTHENTICATION & ACCESS	
WPA2/WPA3 Personal and Enterprise (incl. mixed/transition modes)	Wi-Fi Enhanced Open (OWE)
Dynamic and multiple pre-shared keys (DPSK/MPK)	MAC-based authentication
Hotspot captive portal with Dynamic Authorization (DAE)	RADIUS and NAC integration

NETWORK SERVICES	
802.1Q VLAN and dynamic VLAN assignment	ACL, NAT, and L3 firewall functions
DHCP, IPv6, proxy ARP, and LLDP	Spanning Tree Protocol
DHCP snooping and ARP inspection	Application-aware QoS integrated with Celona MicroSlices

OPERATIONS & LIFECYCLE

Celona Orchestrator cloud management	Serial and bulk onboarding with site assignment
Certificate-based discovery; secure AP-to-cloud communication	Unified inventory, alarms, client timeline, and site-health visibility
Centralized firmware staging, upgrade, and rollback	Remote diagnostics, packet capture, and spectrum visibility

05 What's in the box

Image placement is illustrative – confirmed during review. 2 items ship with each unit. PoE injector or a compatible multi-gig PoE (802.3bt/at) switch is sold separately unless included in the commercial bundle.



Celona WAP14 Wi-Fi 7 access
point



Mounting kit (ceiling / wall /
wall-plate / T-bar)

06 Ordering information

WAP14 is managed through Celona Orchestrator and requires an active Celona subscription for Celona-managed operation.

SKU / PRODUCT NAME	C-WAP14 (TENTATIVE - SUBJECT TO CHANGE) / CELONA WAP14 INDOOR WI-FI 7 ACCESS POINT
Base Hardware	Concurrent tri-band Wi-Fi 7 AP - 2×2:2 (2.4 GHz) / 4×4:4 (5 GHz) / 4×4:4 (6 GHz) - with internal antennas, BLE and Zigbee
Power	IEEE 802.3bt/at PoE; PoE injector or compatible switch sold separately unless included in the commercial bundle
Included Accessories	Ceiling / wall / T-bar mounting kit
Management	Celona Orchestrator subscription required for Celona-managed operation
Support & Warranty	Provided under the applicable Celona subscription and support terms
Availability / Status	TBD (preliminary); product status: Beta (preliminary)
Regulatory Certifications	Country-specific certifications and 6 GHz operation subject to final SKU and regulatory approval

Ordering information, subscriptions, certifications, commercial packaging, and availability are preliminary and subject to change prior to FCS. Underlying hardware specifications are sourced from a preliminary Edgecore EAP106 datasheet (EC DS_260224) and are subject to change.

07 Warranty

Warranty and support for the Celona WAP14 are provided under the applicable Celona subscription and support terms, as part of an active Celona subscription.