



/ DATA SHEET

# Celona Indoor Wi-Fi 7 access point WAP 12

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



## / AT A GLANCE

|               |                                                     |
|---------------|-----------------------------------------------------|
| WIRELESS TYPE | Wi-Fi 7 (IEEE 802.11be),<br>concurrent tri-band 2×2 |
| DEPLOYMENT    | Indoor                                              |
| BANDS         | 2.4 / 5 / 6 GHz                                     |
| MAX PHY RATE  | Up to 9.34 Gbps aggregate                           |
| IP RATING     | IP41                                                |
| MANAGEMENT    | Celona Orchestrator<br>(unified with Private 5G)    |

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## 01 Overview

The WAP12 is a compact indoor Wi-Fi 7 access point in the Celona Orion platform, built for enterprise and industrial environments. It delivers high-capacity connectivity for 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, WAP12 extends Celona's converged wireless operating model with common site hierarchy, inventory, onboarding, security policy, telemetry, alarms, firmware lifecycle, and SSID-to-MicroSlice policy mapping – purpose-built Wi-Fi for the workloads where Wi-Fi performs best, unified with Private 5G under one enterprise wireless platform.

## 02 Key benefits

An 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 4K-QAM, OFDMA, MU-MIMO, Multi-Link Operation, and up to 320 MHz channels deliver capacity for modern enterprise and industrial devices.

### Enterprise Wi-Fi 7 platform

Purpose-built indoor Wi-Fi 7 access point delivering concurrent tri-band operation with 2x2 MIMO across 2.4 GHz, 5 GHz and 6 GHz, providing high-capacity connectivity for modern enterprise and industrial environments.

### Advanced Wi-Fi 7 architecture

Supports Multi-Link Operation (MLO), 320 MHz channels, 4K-QAM, OFDMA, MU-MIMO and preamble puncturing to maximize capacity, reduce latency and improve spectrum efficiency for next-generation enterprise applications.

### Unified enterprise wireless

Managed through Celona Orchestrator, delivering unified visibility, policy, lifecycle management and application-aware Micro-Slicing across both Wi-Fi and Private 5G through a single converged enterprise wireless platform.

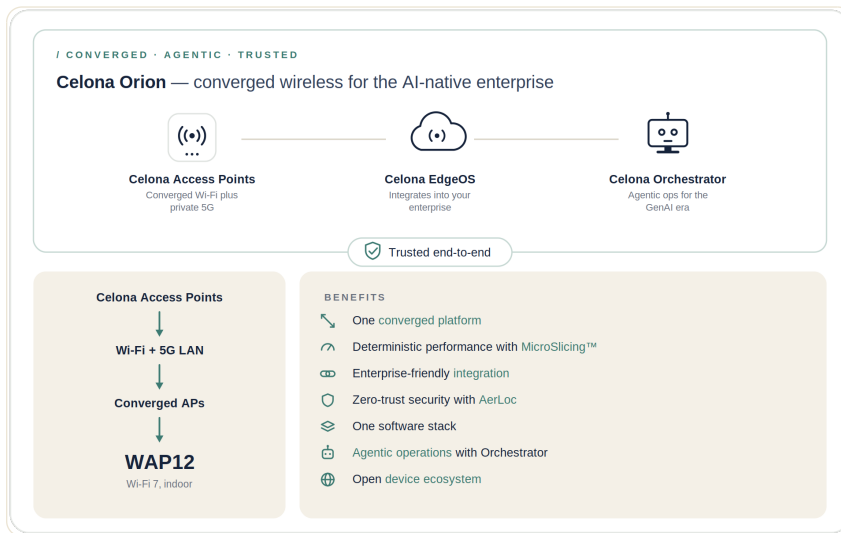
### Enterprise-Grade security

Supports WPA2/WPA3 Enterprise, 802.1X, certificate-based authentication and secure cloud management to protect users, devices and enterprise applications.

### Flexible deployment

Powered through IEEE 802.3at PoE+ with integrated antennas and flexible ceiling, wall and T-bar mounting, enabling rapid deployment across offices, manufacturing, warehousing, healthcare, education and distributed enterprise environments.

## 03 Celona Orion platform



Celona Orion brings enterprise Wi-Fi and Private 5G together as one intelligent wireless fabric: use WAP12 for high-capacity 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; 2×2:2 on 5 GHz; 2×2:2 on 6 GHz                                  |
| Aggregate PHY Rate     | Up to 9.34 Gbps: 688 Mbps (2.4 GHz), 2.882 Gbps (5 GHz), 5.765 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          |
| Max Conducted TX Power | Up to 28 dBm (2.4 GHz), 29 dBm (5 GHz), 25 dBm (6 GHz); regulatory limits apply   |
| Internal Antenna Gain  | 5 dBi (2.4 GHz); 6 dBi (5 GHz); 6 dBi (6 GHz)                                     |
| Max Power Consumption  | 23.58 W                                                                           |
| Dimensions (L×W×H)     | 179 × 195 × 35 mm / 7.0 × 7.7 × 1.4 in                                            |
| Weight                 | 0.907 kg (2.0 lb)                                                                 |
| IP Rating              | IP41 (fanless enclosure)                                                          |
| Operating Environment  | 0°C to 50°C; 5–95% non-condensing humidity                                        |
| Storage Environment    | –30°C to 70°C; 5–95% non-condensing humidity                                      |
| Mounting               | Ceiling, wall, wall-plate, or T-bar; mounting kit included                        |
| PORTS & INTERFACES     |                                                                                   |
| Uplink Port            | 1× 100/1000/2500/5000BASE-T RJ-45 with IEEE 802.3at PoE+                          |
| Auxiliary LAN Port     | 1× 100/1000BASE-T RJ-45 (unused port may be covered for controlled installations) |
| Optional Power Input   | USB-C PD 3.0, 15–20 V (power adapter not included)                                |
| Indicators & Controls  | Tri-color status LED; 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 |
| WIRELESS & MOBILITY                                              |                                                                                                  |
| Multi-Link Operation (MLO)                                       | DFS support                                                                                      |
| 802.11k/v/r fast roaming                                         | OFDMA, MU-MIMO, 4K-QAM, and BSS coloring                                                         |
| AUTHENTICATION & ACCESS                                          |                                                                                                  |
| WPA2/WPA3 Personal and Enterprise (incl. mixed/transition modes) | Dynamic, private, and multiple PSK options (DPSK/PPSK/MPSK)                                      |
| 802.1X with EAP-TLS, PEAP, and TTLS                              | RADIUS, NAC, and captive-portal integration                                                      |
| MAC-based authentication                                         | Secure boot, signed firmware, and certificate-based mutual authentication                        |
| NETWORK SERVICES                                                 |                                                                                                  |
| 802.1Q VLAN and dynamic VLAN assignment                          | Spanning Tree Protocol                                                                           |
| DHCP, IPv6, proxy ARP, and LLDP                                  | Application-aware QoS integrated with Celona MicroSlices                                         |
| OPERATIONS & LIFECYCLE                                           |                                                                                                  |
| Celona Orchestrator cloud management                             | Unified inventory, alarms, client timeline, and site-health visibility                           |
| Serial and bulk onboarding with site assignment                  | Centralized firmware staging, upgrade, and rollback                                              |
| Certificate-based discovery; secure AP-to-cloud communication    | Remote diagnostics, packet capture, and spectrum visibility                                      |

## 05 What's in the box

Image placement is illustrative – confirmed during review. Two items ship with each unit. A PoE injector or compatible PoE+ switch is sold separately unless included in the commercial bundle.



Celona WAP12 Wi-Fi 7 access  
point



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

# 06 Ordering information

WAP12 is managed through Celona Orchestrator and requires an active Celona subscription for Celona-managed operation.

| SKU / PRODUCT NAME        | WAP12 / CELONA WAP12 INDOOR WI-FI 7 ACCESS POINT                                                              |
|---------------------------|---------------------------------------------------------------------------------------------------------------|
| Base Hardware             | Concurrent tri-band 2x2 Wi-Fi 7 AP with internal antennas                                                     |
| Power                     | IEEE 802.3at 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 private 5G subscription required for Celona-managed operation                             |
| Support & Warranty        | Provided under the applicable Celona subscription and support terms                                           |
| Availability              | Beta: August (tentative); FCS: October (tentative)                                                            |
| Regulatory Certifications | Country-specific certifications and 6 GHz operation subject to final SKU and regulatory approval              |

# 07 Warranty

Warranty and support for the Celona WAP12 are provided under the applicable Celona subscription and support terms, as part of an active Celona Private Mobile Network subscription.