



DATA SHEET

Celona Indoor Access Point AP-12

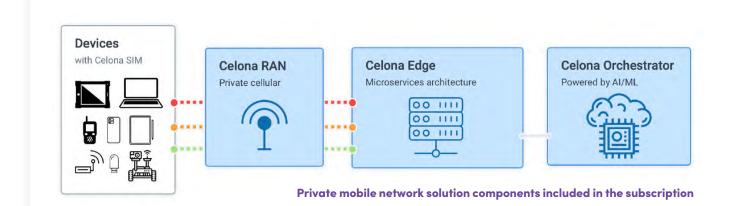
Enabling cellular wireless connectivity for enterprise environments, within private spectrum options

Celona indoor AP-12 hardware is part of Celona's private mobile network subscription. It is optimized for indoor environments where wireless connectivity with predictable performance and low latency are required. Delivering up to 25K SQFT of coverage, Celona access points are designed to accelerate the adoption of mission-critical devices and applications on enterprise wireless. They support plug and play deployment, dynamic spectrum management, remote provisioning and centralized cloud-based management.





The Celona AP-12 can be mounted on indoor ceilings or walls in various indoor environments. They are powered via Power over Ethernet (802.3at PoE+) or via AC power. They take advantage of existing Ethernet/IP infrastructure for network connectivity. After installation these access points auto-discover the Celona Edge and Celona Orchestrator over any enterprise IP network to enable a plug and play deployment model.



Key Benefits

Plug-n-Play at Scale

- Zero touch deployment and centralized cloud-based operational model to make cellular wireless accessible to enterprise IT and industrial IoT
- Coordinated spectrum management algorithm to optimize system wide performance
- Adapts to existing enterprise IT network configuration across remote, branch and campus
- Celona APs leverage secure, standards-based interfaces (S1 and TR-069 over IPSec) to establish data and control plane communications with the Celona Edge software.
- They are configured and monitored via the cloud-hosted Celona Orchestrator.

Predictable reliability

- Interference free operation within the private cellular wireless spectrum via centralized coordination of frequency and power level allocation across the Celona network
- Highly reliable connectivity by leveraging advanced cellular wireless protocol features
- Infrastructure control for traffic scheduling and mobility events for client devices

Application aware

- Support Celona's unique MicroSlicingTM technology to enforce service level objectives for minimum throughput, maximum latency / jitter / packet error rate
- Assign radio resources in realtime to MicroSlicing policies on a per application type and device group basis



AP-12 Specifications

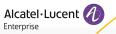
High Level Specifications		
Туре	4G LTE Access Point 3GPP Release 13, TDD	
Frequency	3550 - 3700 MHz	
Simultaneously Active Devices	Up to 96	

Ports and Interfaces		
Network Interfaces	One (1) 10/100/1000 Mbps Ethernet (RJ-45) One (1) SFP Port for future use	
LED	Power, Cell 1, Cell 2, Alarm	
Power	802.3at PoE+ or 12V/2.5A power (AC adapter included)	
Timing	GPS antenna port Support for IEEE 1588v2 PTP	
Other Interfaces	Reset Button External GPS antenna interface	

Performance Specifications	
TDD Config 1 Peak Data Rates	Download: 130 Mbps, with Carrier Aggregation Upload: 27 Mbps per radio, 54 Mbps per AP
TDD Config 2 Peak Data Rates	Download: 188 Mbps, with Carrier Aggregation Upload: 14 Mbps per radio, 28 Mbps per AP

RF Specifications	
Channel Bandwidth	10, 20 MHz per carrier With carrier aggregation up to 40 MHz
Antennas	Internal with 2x2 MIMO support per carrier
Max Transmission Power	24dBm / 250mW per RF Path
Antenna Gain	3 dBi

AP-12 Other Specifications		
Dimensions (WxDxH)	8.7 x 8.7 x 1.8 (inches) 21 x 21 x 4.6 (cm)	
Weight	3.5 lbs 1.6 kg	
Environmental	Operating Temperature: -5° to 45°C Storage Temperature: -10° to 50° C Humidity: 5% to 95% non-condensing	
Mounting and Installation	Wall or ceiling mount	



Ordering Information

Celona Indoor APs are included in the Celona private mobile network subscription, scaling with the number of access points in the network.

CNSUBINDI3

3YR 1AP indoor 4G private wireless subscription for management, SIM, mobile core via Celona Edge/Orchestrator. Includes 4G cat A b48 (3550–3700 MHz) AP12 int. antenna, 20 SIM/ 20 eSIM, LLW and tech support.

CNSUBINDI5

5YR 1AP indoor 4G private wireless subscription for management, SIM, mobile core via Celona Edge/Orchestrator. Includes 4G cat A b48 (3550–3700 MHz) AP12 int. antenna, 20 SIM/ 20 eSIM, LLW and tech support..

Compliance and Certifications

The Celona Indoor AP conforms to the following:

- FCC Part 15 Class A, FCC Part 96 Cat. A
- 3GPP Rel9 Technical Specifications 36.104 and 36.141

Warranty

Celona indoor access points are covered with limited lifetime warranty as long as they are operational under an active subscription.



