



/ DATA SHEET

Celona multimode LTE/5G indoor access point AP 20

The plug-and-play multimode LTE/5G Celona Orion access point – pervasive indoor coverage with deterministic performance for business-critical enterprise applications.



/ AT A GLANCE

WIRELESS TYPE	Multimode LTE / 5G NR
DEPLOYMENT	Indoor
BAND	n48 (3.55–3.7 GHz)
HAZARDOUS ENVIRONMENTS	Not rated
IP RATING	IP52
AERFLEX	Supported

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Rev 656a97 | Last updated 11 August 2026

celona.io/resources/ap-20-data-sheet | Talk to Celona: celona.io/contact-us

01 Overview

The AP 20 is the plug-and-play multimode access point in the Celona Orion platform – the industry’s only multimode LTE/5G NR access point for future-proof private wireless infrastructure. Bringing the speed, security, and reliability of 5G NR to enterprises across industries, it was engineered to deliver pervasive indoor cellular coverage across enterprise environments – warehouses, retail stores, manufacturing plants, hospitals, and offices. With both LTE and 5G radios on board, each AP 20 can operate in either mode, letting enterprises future-proof their infrastructure as the device ecosystem evolves from LTE to 5G. Powered by CelonaOS, it delivers deterministic performance for business-critical applications and supports AerFlex – AP-only deployments with zero on-site infrastructure. Ultra-low latency under 10 ms enables applications like wireless PLCs and PROFINET.

02 Key benefits

A multimode LTE/5G NR access point powered by CelonaOS, purpose-built for indoor enterprise environments – IP52 rated with dust protection and IEEE 802.3bt Type 4 PoE++ for seamless integration with existing network infrastructure. Operating on band n48 (3.55–3.7 GHz) with AerFlex support, it delivers zero-touch provisioning, self-organizing spectrum management, and an integrated PTP timing source – no external timing equipment required.

Multimode LTE/5G – future-proof

Each AP 20 can be configured to operate in LTE or 5G NR mode, giving enterprises a seamless path to 5G NR with no hardware upgrades. Deploy 4G and 5G NR devices simultaneously on the same network as your device ecosystem evolves.

Secure wireless communication

Certificate-based mutual authentication secures the connection between AP and cloud. Data at rest and in transit is protected by comprehensive encryption, and system components undergo regular third-party penetration testing.

Supports AerFlex AP-only deployment

Cloud-controlled with local data break-out – no on-site appliances, racks, or custom cabling. Ideal for distributed, space-constrained, or remote sites. Supported on AP2X radios.

Enterprise-friendly management and operations

Out-of-the-box zero-touch provisioning brings each AP online in minutes with no manual setup. Self-organizing spectrum management optimizes spectrum usage across the network to minimize interference and maximize capacity, and an integrated PTP timing source eliminates external timing equipment.

Built for indoor ruggedized environments

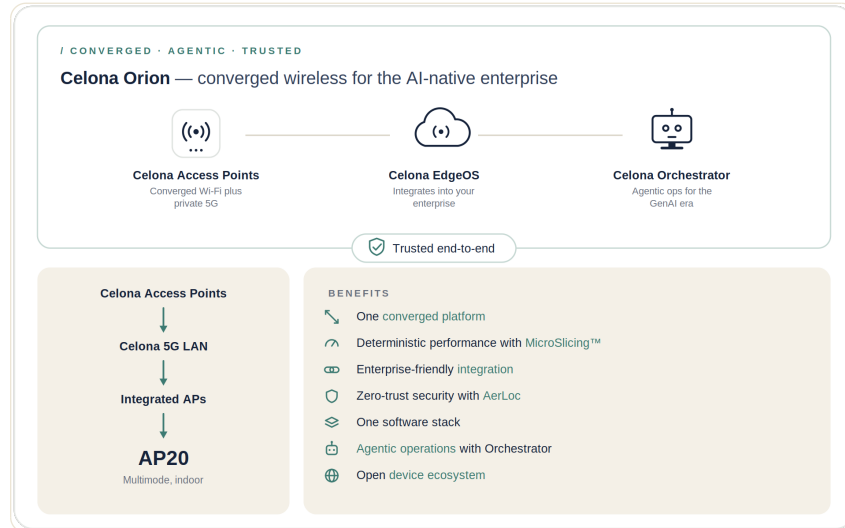
IP-52 rated with dust protection for indoor ruggedized environments. Integrates seamlessly with existing infrastructure via IEEE 802.3bt Type 4 PoE++, and mounts on a T-bar, ceiling, or wall.

Deterministic performance for mission-critical apps

One-way application latency under 10 ms (device to edge). 5QI MicroSlicing™ enforces QoS per application flow so critical workloads always get priority bandwidth. Delivers up to 1 Gbps aggregate throughput (2×2 MIMO, up to 256 QAM, 30 kHz sub-carrier spacing) with predictable high-speed mobility above 25 mph between access points.

03 Celona Orion platform

Celona Orion is converged wireless for the AI-native enterprise – one platform spanning radio, core networking, and AI-powered management. It brings 5G performance, reliability, and deterministic QoS into enterprise and industrial environments, designed specifically for enterprise integration and AI-driven operations.



Celona SIM + AerConnect

Device identity and intelligence

Celona Access Points

Wi-Fi + private 5G as one system

Celona EdgeOS

Integrates into your enterprise

Celona Orchestrator AI

Agentic ops for the GenAI era

04 Specifications

HIGH LEVEL

Type	5G Indoor Access Point (3GPP Rel. 15 TDD); 4G LTE Indoor Access Point (3GPP Rel. 13 TDD)
RF Specifications	5G: 2×2 MIMO UL/DL, up to 256 QAM. LTE: 2×2 MIMO UL/DL, up to 64 QAM, Carrier Aggregation
Power (Rx/Tx)	Up to 24 dBm max per port
Channel Bandwidth	AP20–48: 20, 40 MHz
Latency	<10 ms one-way (device to Celona Edge)
Connected Devices	96 active (LTE); 128 active (5G) concurrent
Dimensions (W×D×H)	250 × 300 × 85 mm / 9.8 × 11.8 × 3.34 in
Weight	4.45 kg (9.8 lbs)
Environmental	Operating: 0°C to +45°C / Storage: -10°C to +50°C / Humidity: 5–95% non-condensing
Power Interface Lightning Protection	Not applicable (indoor)
Surge Protection	Yes
Installation	Wall or ceiling mount. T-Bar mount kits (Prelude, Suprafine, Interlude, Silhouette)
Power Consumption	71 W (maximum), 802.3bt Type 4 PoE++
MTBF	>70K hours

PORTS & INTERFACES

Network Interfaces	1× RJ-45 Ethernet interface (1/2.5 GE)
Antenna Interfaces	Built-in omni (max 6 dBi antenna gain)
Power Supply	PoE injector (AC to PoE power, included in the AP 20 package)
Timing	PTP grand master and IEEE 1588v2 PTP. Optional external GPS antenna
LED Indicators	System, LTE, 5G

COMPLIANCE & FREQUENCY	
Certifications	AP20-48: FCC Cat A/B and OnGo Alliance (United States)
Frequency Band	AP20-48: 3.55-3.7 GHz

05 What's in the box

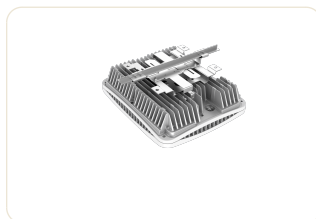
Image placement is illustrative – confirmed during review. Four items ship with each unit.



AP 20 indoor access point



PoE injector (AC to PoE)



Wall & ceiling mount



T-Bar mount kit (Prelude,
Suprafine, Interlude,
Silhouette)

06 Ordering information

Celona Indoor AP 20 is included in the per-AP Celona private mobile network subscription, which scales with the number of access points in the network.

SKU	DESCRIPTION
C-S-5G-48-NNM-X-3	3-year indoor 5G private wireless service subscription for one multi-mode indoor access point including management, SIM provisioning, and mobile core services via Celona Edge software and Celona Orchestrator cloud service. Includes a multi-mode category A CBRS (3550–3700 MHz) access point usable in 4G/5G modes, Celona express technical support, limited lifetime warranty, and 20 private SIM cards.
C-S-5G-48-NNM-X-5	5-year indoor 5G private wireless service subscription – same inclusions as the 3-year SKU.
C-S-4G-48-NNM-X-3	3-year indoor 4G private wireless service subscription for one multi-mode indoor access point including management, SIM provisioning, and mobile core services via Celona Edge software and Celona Orchestrator cloud service. Includes a multi-mode category A CBRS (3550–3700 MHz) access point usable in 4G mode, Celona express technical support, limited lifetime warranty, and 20 private SIM cards.
C-S-4G-48-NNM-X-5	5-year indoor 4G private wireless service subscription – same inclusions as the 3-year SKU.
C-S-5G-48-NNM-X-M	Add-on 5G software upgrade for an existing indoor 4G private wireless service subscription for one multi-mode indoor access point, including management, SIM provisioning, and mobile core services via Celona Edge software and Celona Orchestrator cloud service.
CS-AERFLEX-X-3	3-year add-on AerFlex service subscription for one access point – cloud-based control plane and AP-managed data plane. Includes Celona express technical support.
CS-AERFLEX-X-5	5-year add-on AerFlex service subscription – same inclusions as the 3-year SKU.
CS-AERFLEX-X-M	Monthly add-on AerFlex service subscription for one access point. Includes Celona express technical support.
CN-ANT-GPS-KIT	Celona industrial-grade GPS/GLONASS timing antenna with a GPS bullet 360° antenna, surge protector, cables (75 ft from PTP to surge protector, 15 ft from surge protector to antenna), and mounting brackets.

07 Warranty

Limited lifetime warranty coverage for Celona Indoor access points is included as part of an active Celona Private Mobile Network subscription.