



/ DATA SHEET

Celona 5G indoor access point AP 22

The plug-and-play Celona Orion 5G NR access point – pervasive indoor coverage across a wide range of global 5G NR bands, with deterministic performance for business-critical enterprise applications.



/ AT A GLANCE

WIRELESS TYPE	Integrated Private 5G NR
DEPLOYMENT	Indoor
BAND	n48, n78, n77 (3.3–4.2 GHz)
HAZARDOUS ENVIRONMENTS	Not rated
IP RATING	IP52
AERFLEX	Supported

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celona.io/resources/ap-22-data-sheet | Talk to Celona: celona.io/contact-us

01 Overview

The AP 22 is the plug-and-play indoor access point in the Celona Orion platform – a fully integrated 5G NR access point for enterprise private wireless across a wide range of global 5G NR bands. 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. As a fully integrated access point, it connects directly to your IT network with fewer components. 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

An integrated private 5G NR access point powered by CelonaOS, purpose-built for indoor enterprise environments – IP52 rated with dust protection and IEEE 802.3bt Type 3 PoE++ for seamless integration with existing network infrastructure. Operating across global 5G NR bands from 3.3–4.2 GHz with AerFlex support, it delivers fewer components, zero-touch provisioning, self-organizing spectrum management, and an integrated PTP timing source – no external timing equipment required.

Proven indoor Private 5G platform

A mature, field-proven indoor private 5G access point designed for reliable enterprise and industrial deployments.

Industrial indoor design

Features an IP52-rated enclosure engineered for dependable operation in manufacturing facilities, warehouses, healthcare environments, campuses and other demanding indoor locations.

Optimized indoor RF performance

Delivers up to 24 dBm conducted transmit power per RF port with 2x2 MIMO and optimized integrated antennas for predictable coverage, seamless mobility and consistent cell-edge performance.

PoE++ enterprise integration

Powered through IEEE 802.3bt PoE++, allowing the access point to connect directly to compatible enterprise Ethernet switches without requiring separate local power infrastructure.

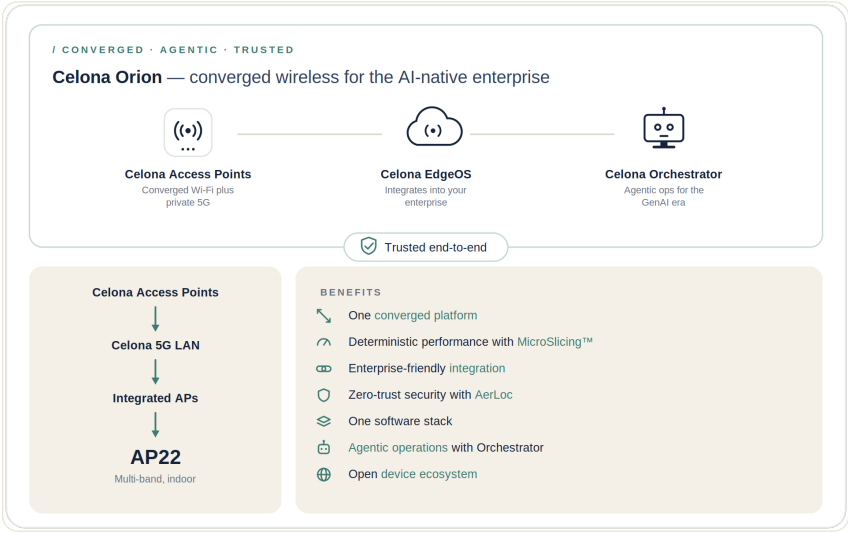
Flexible deployment

Supports Celona Edge, Virtualized Edge and AerFlex™ deployment architectures, with flexible ceiling and wall mounting for rapid integration into existing enterprise environments.

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)
RF Specifications	2×2 MIMO UL/DL, up to 256 QAM
Power (Rx/Tx)	Up to 24 dBm max per port
Channel Bandwidth	AP22-48: 20, 40 MHz. AP22-77/78: 40, 60 MHz
Latency	<10 ms one-way (device to Celona Edge)
Connected Devices	128 active (concurrent)
Dimensions (W×D×H)	250 × 250 × 74 mm / 9.8 × 9.8 × 2.9 in
Weight	3.22 kg (7.1 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	51 W (maximum), 802.3bt Type 3 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 22 package)
Timing	PTP grand master and IEEE 1588v2 PTP. Optional external GNSS antenna
LED Indicators	System, 5G

COMPLIANCE & FREQUENCY

Certifications	AP22-48: FCC Cat A/B, OnGo Alliance (US); AP22-78: CE, Brazil ANATEL, Mexico NOM; AP22-77: CE, CE-UK, Canada IC
Frequency Band	AP22-48: 3.55–3.7 GHz; AP22-78: 3.3–3.8 GHz; AP22-77: 3.8–4.2 GHz

05 What's in the box

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



AP 22 indoor access point



Wall & ceiling mount



PoE injector (AC to PoE)



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

06 Ordering information

Celona Indoor AP 22 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-NN-X-3	3-year indoor 5G private wireless service subscription for one indoor access point including management, SIM provisioning, and mobile core services via Celona Edge software and Celona Orchestrator cloud service. Includes a 5G category A n48 (3550–3700 MHz) access point, Celona express technical support, limited lifetime warranty, and 20 private SIM cards.
C-S-5G-78-NN-X-3	3-year indoor 5G private wireless service subscription for one indoor access point – same inclusions as above, with a 5G indoor n78 (3300–3800 MHz) access point.
C-S-5G-77-NN-X-3	3-year indoor 5G private wireless service subscription for one indoor access point – same inclusions as above, with a 5G indoor n77 (3800–4200 MHz) access point.
C-S-5G-48-NN-X-5	5-year indoor 5G private wireless service subscription – same inclusions as the C-S-5G-48-NN-X-3 SKU.
C-S-5G-78-NN-X-5	5-year indoor 5G private wireless service subscription – same inclusions as the C-S-5G-78-NN-X-3 SKU.
C-S-5G-77-NN-X-5	5-year indoor 5G private wireless service subscription – same inclusions as the C-S-5G-77-NN-X-3 SKU.
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

C-S-5G-78-NN-X-3