



/ DATA SHEET

Celona PoE+ 5G indoor access point AP 26

A plug-and-play Celona Orion 5G NR indoor access point for enterprise private wireless across the 3550–4200 MHz band (n48, n77, n78H), delivered as a single region-provisioned SKU on IEEE 802.3at PoE+.



/ AT A GLANCE

WIRELESS TYPE	Integrated Private 5G NR
DEPLOYMENT	Indoor (PoE+)
BAND	n48, n77, n78H (3.55–4.2 GHz)
HAZARDOUS ENVIRONMENTS	Not rated
IP RATING	Not yet specified (draft)
AERFLEX	Not supported

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celona.io/resources/ap-26-data-sheet | Talk to Celona: celona.io/contact-us

01 Overview

The AP 26 is the PoE+ indoor access point in the Celona Orion platform – a fully integrated 5G NR access point designed for enterprise private wireless environments running on PoE+ infrastructure. Purpose-built for data center and similar environments, it is delivered as a single, region-provisioned SKU that automatically maps to n48, n77, or n78H based on site address. Powered by CelonaOS, it delivers deterministic, enterprise-grade performance for business-critical applications across the 3550–4200 MHz spectrum, and single-cable IEEE 802.3at PoE+ operation simplifies indoor deployment.

02 Key benefits

An integrated private 5G NR access point powered by CelonaOS, purpose-built for data center and PoE+ indoor environments. Operating across the 3550–4200 MHz spectrum (n48, n77, n78H) as a single region-provisioned SKU, it runs entirely over IEEE 802.3at PoE+ – a single cable, no power injector – and mixes and matches with the existing AP 21, AP 22, AP 24, and AP 25 portfolio on the same site.

Support for global private wireless spectrum

Operates across 3550–4200 MHz (n48, n77, n78H) as a single unified hardware platform, automatically region-provisioned by site address with an activation-time override available.

Built for data center and PoE+ environments

Powered entirely over IEEE 802.3at PoE+ (25.5 W) – no separate power injector required. Mix-and-match support with the existing AP21, AP22, AP24, and AP25 portfolio on the same site.

Secure wireless communication

Certificate-based mutual authentication secures the connection between AP and cloud, with data at rest and in transit protected by comprehensive encryption mechanisms.

Deterministic performance for business-critical applications

32 concurrent users per AP with 2×2 MIMO, up to 256 QAM (DL) / 64 QAM (UL). Balanced, DL-heavy, and UL-heavy traffic profiles, with 20, 40, 60, and 100 MHz channel bandwidths.

Enterprise-friendly management and operations

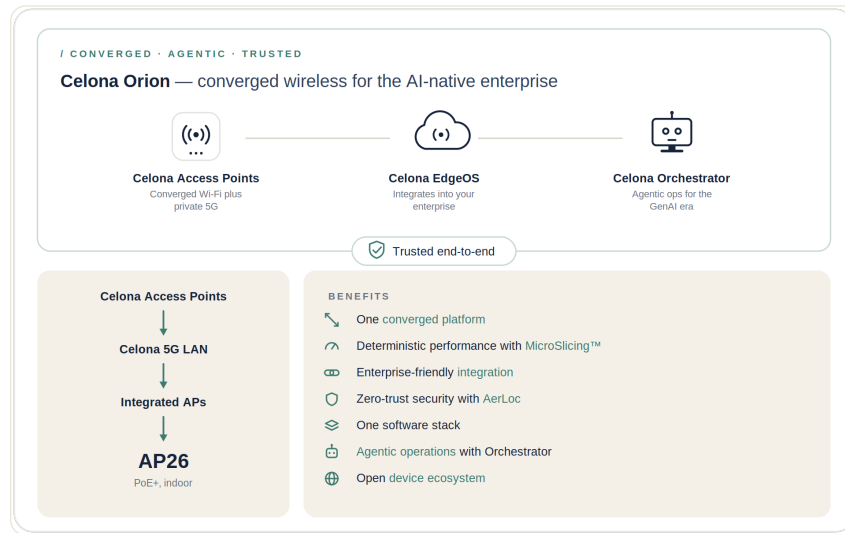
Cloud-managed through Celona Orchestrator with automatic sub-band mapping and site-level visibility. Integrated PTP follower support provides precise timing synchronization, with a single-LED status indicator.

Support for external antennas

External antenna support is planned for AP 26, qualified against Celona antennas as deployments require (120° sector, 65° sector, and Omni).

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 NR access point, Category A, single sector (3GPP Rel. 15 TDD)
Model	AP26-48 77 78H - unified SKU, region-provisioned by site address
RF Specifications	2x2 MIMO UL/DL, up to 256 QAM (DL) / 64 QAM (UL), 30 kHz subcarrier spacing
Power (Rx/Tx)	21 dBm/port (n48); 24 dBm/port (n77, n78H); 6 dBi antenna gain; up to 33 dBm max EIRP
Channel Bandwidth	20, 40, 60, 100 MHz
Latency	Not yet specified (draft)
Connected Devices	32 concurrent users per AP
Dimensions (WxDxH)	Not yet specified (draft)
Weight	Not yet specified (draft)
Environmental	Operating: -5°C to +45°C. Storage temperature and humidity not yet specified (draft)
Power Interface Lightning Protection	Not applicable (indoor)
Surge Protection	Not yet specified (draft)
Installation	Mounting brackets & screws included (mount method not yet specified)
Power Consumption	IEEE 802.3at PoE+ (<25.5 W); no power injector included
MTBF	Not yet specified (draft)

PORTS & INTERFACES	
Network Interfaces	1× RJ-45 Ethernet (1G / 2.5 GbE)
Antenna Interfaces	Built-in, 6 dBi max antenna gain. External antenna ports: 2× SMA (planned). GPS antenna port: 1× SMA
Power Supply	IEEE 802.3at PoE+ (<25.5 W); no power injector included
Timing	PTP follower support only
LED Indicators	Single LED – solid blue = radio active; blinking blue = initializing / connecting to cloud; off = powered down
COMPLIANCE & FREQUENCY	
Certifications	AP26 (n48, US): FCC – FCC ID 2AWNPN-AP26-48-77. AP26 (n77, n78H): CE – for EU deployments
Frequency Band	AP26-48: 3550–3700 MHz; AP26-77: 3800–4200 MHz; AP26-78H: 3550–3800 MHz. All 20/40 MHz at GA (60/100 MHz planned)

05 What's in the box



AP 26 unit



Ceiling Mount Kit



Mounting brackets & screws

06 Ordering information

Celona Indoor AP 26 is included in the per-AP Celona private mobile network subscription, which scales with the number of access points in the network.

SKU	DESCRIPTION
CS-AP26-48-P5G-X-3	3-year indoor 5G private wireless service subscription for one AP26 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 AP26 indoor access point supporting n48 (3550–3700 MHz) with integrated antennas and optional external antenna support, Celona Express technical support, limited lifetime warranty, and 20 private 5G SIM cards.
CS-AP26-48-P5G-X-5	5-year indoor 5G private wireless service subscription – same inclusions as the 3-year n48 (3550–3700 MHz) SKU.
CS-AP26-77-P5G-X-3	3-year indoor 5G private wireless service subscription for one AP26 indoor access point – same services and inclusions, with a 5G AP26 supporting n77 (3800–4200 MHz), integrated + optional external antennas, Celona Express support, limited lifetime warranty, and 20 private 5G SIM cards.
CS-AP26-77-P5G-X-5	5-year indoor 5G private wireless service subscription – same inclusions as the 3-year n77 (3800–4200 MHz) SKU.
CS-AP26-78H-P5G-X-3	3-year indoor 5G private wireless service subscription for one AP26 indoor access point – same services and inclusions, with a 5G AP26 supporting n78H (3550–3800 MHz), integrated + optional external antennas, Celona Express support, limited lifetime warranty, and 20 private 5G SIM cards.
CS-AP26-78H-P5G-X-5	5-year indoor 5G private wireless service subscription – same inclusions as the 3-year n78H (3550–3800 MHz) SKU.

07 Warranty

CS-AP26-48-P5G-X-5