

PCW-400i

Indoor Small Cell

Enabling AI in
the Enterprise



Indoor Integrated Enterprise 5G & Wi-Fi Small Cell

The PCW-400i Wi-Fi-enabled 5G Small Cell empowers enterprises to thrive in today's fast-evolving, AI-driven world. It delivers seamless mobility, reliability, and built-in cloud-native security—ensuring the coverage, performance, and resilience needed for real-time data processing and workload optimization.

As a fully integrated 5GNR small cell, the PCW-400i operates in bands* n48, n77, and n78, alongside three bands from the Wi-Fi 7 standard, supporting up to 128 concurrent users. Its high-density connectivity is ideal for environments running edge applications or IoT systems powered by AI analytics.

This level of integration presents a unique, low-cost entry point for small and medium-sized businesses to scale their infrastructure.

With a sleek and compact design, the PCW-400i delivers unprecedented data capacity and enhanced user Quality of Experience (QoE) by blending 5G and Wi-Fi. Its simplified deployment supports AI-enhanced network management and automation, offering a robust platform for digital transformation.

Administered by BLINQ's NetLiNQ Management Suite, this Small Cell also supports interoperability with third-party Service Management and Orchestration (SMO) systems through standard interfaces such as NETCONF, WebSockets, and REST/HTTPS.

For CBRS band networks, the PCW-400i implements both n48 connectivity options – a stand-alone CBSD agent, as well as connectivity to a SAS PROXY embedded in the NetLiNQ SON Controller.

*Other bands available by request



Single Product SKU covering Frequency Range 3.3 – 4.2 GHz



**5GNR 4T4R Cell,
200 MHz OBW/IBW**



**Max. Throughput: 6 Gbps
Of Aggregated 5G & Wi-Fi**



2T2R Triband, Wi-Fi 7 AP



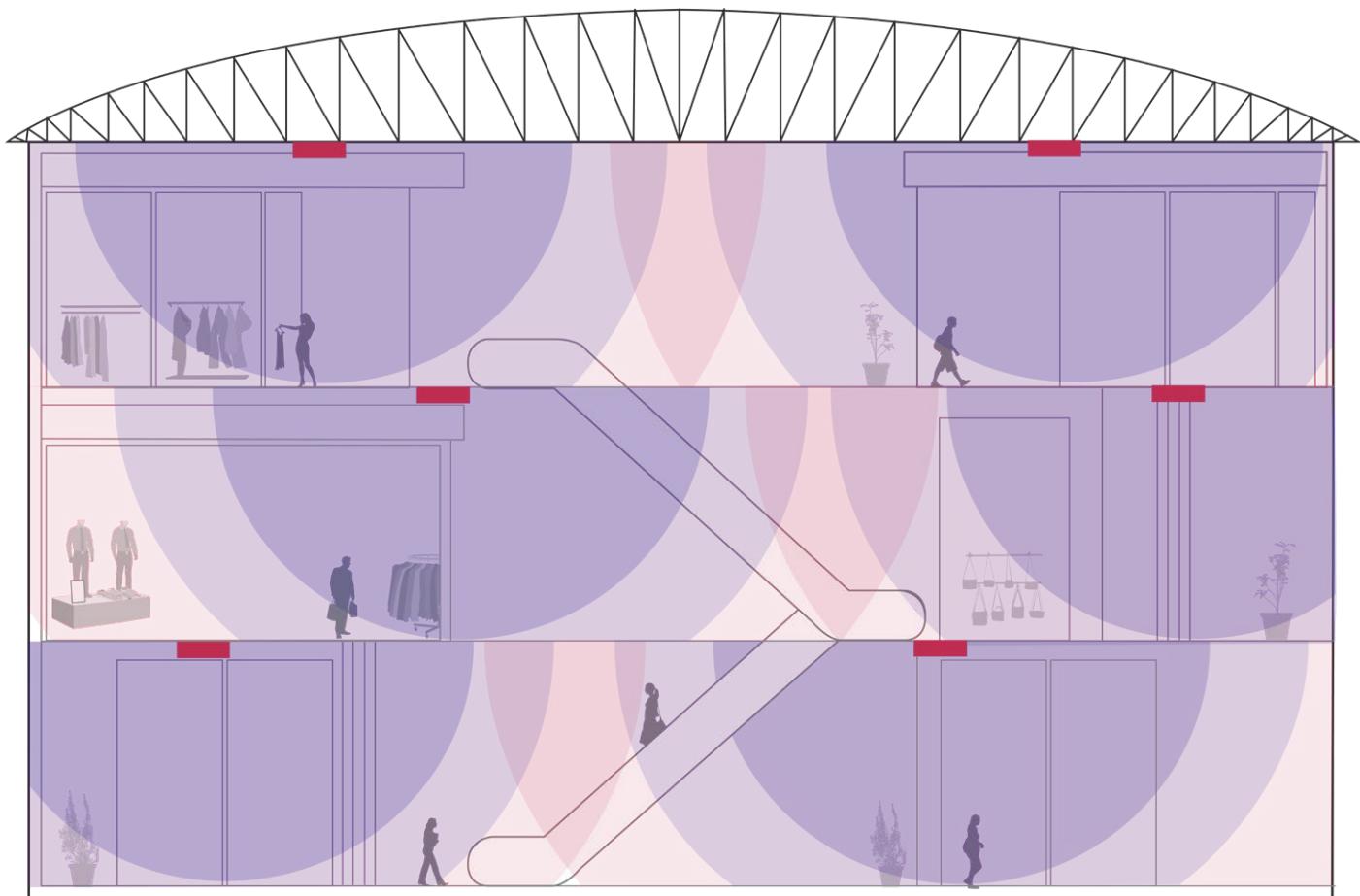
**Zero-Touch Provisioning
(Automatic Onboarding)**

Additional Ordering Options:

- **5GNR Only (No Wi-Fi)**
PC-400i
- **Integrated GPS Receiver**
PCW-401i / PC-401i
- **Premium Connectivity: 200 MHz OBW & 128 UEs**
PC400i-35-PLUS

Supported Features & Benefits:

- **5G bands n48, n77 and n78**
This covers 3550–3700 MHz (CBRS), 3300–4200 MHz and 3300–3800 MHz respectively
- **360° Coverage**
Eliminates dead zones in the network
- **Integrated Antenna**
Hassle-free, simple deployment
- **Carrier Aggregation**
Up to 4 CC
- **All 5G FRI TDD Configurations**
- **VoNR**
- **1588v2 and SyncE**
- **Mobility**
- **Mounting Bracket** included in Unit Package



■ 5GHz Wi-Fi

■ 3.5GHz 5GNR

■ 2.4GHz Wi-Fi

■ PCW-400i

PCW-400i

Specifications



RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	Single SKU: 3.3–4.2 GHz (n48/n77/n78)
5G RF	4T4R
5G Max. Tx Power Per Port / Aggregate (4x4)	23 / 29 dBm
5G Antenna Peak Gain	7 dBi
5G IBW/OBW	200/100 MHz (200/200 MHz Optional)
5G Channel BW	10, 20, 30, 40, 60, 80, 100 MHz
Wi-Fi Standard / Frequency Bands	Wi-Fi 7 (802.11be) / 2.4 GHz, 5.x GHz, 6.x GHz
Wi-Fi Max. Tx Power Per Port / Aggregate (2x2)	23 / 26 dBm
Wi-Fi Antenna Peak Gain	7 dBi (Omni)
Wi-Fi Channel BW	Up to 320 MHz
Wi-Fi MIMO	2T2R
Wi-Fi Mesh	Easy Mesh, Multi-Link
PERFORMANCE & ATTRIBUTES	
No. of UEs Supported	Up to 64 (128 Optional)
5GNR Radio Standard Support / Quality of Service	5GNR / 3GPP Compliance
5GNR Duplex Mode	TDD
Frame Structure	DDDSUUDDDD (5ms), DDSSUUDDDD (5ms), DDDSUUUUDD (5ms), DDDSU (2.5ms)
5G Number of Component Carriers (CC)	Up to 4CC
Max. Modulation	DL: 256 QAM / UL: 256 QAM
Aggregated Throughput	Wi-Fi: 4 Gbps 5GNR: 2.4 Gbps
Power Consumption	65 W
Synchronization	1588v2 and SyncE, GPS (Optional)
5G Citizens Broadband Radio Service (CBRS)	CBSD Cat. A
Wi-Fi Automated Frequency Coordination (AFC) Support	Standard Power
ELECTRICAL & INTERFACES	
Physical Interfaces	10G Ethernet with PoE++ & 10G SFP+
Power	PoE++ (IEEE 802.3bt)

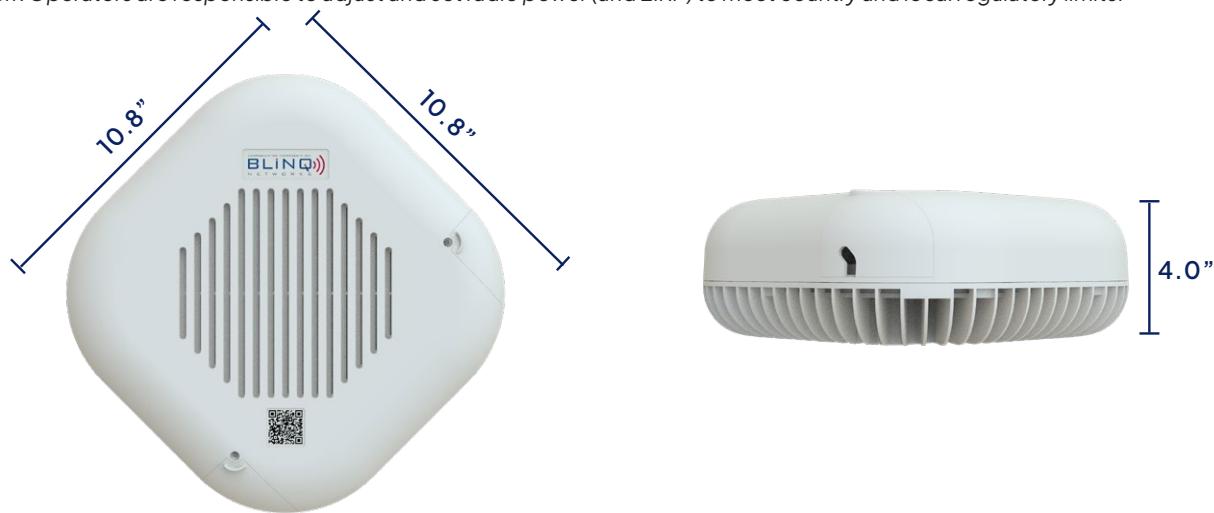
PCW-400i

Specifications



SOFTWARE	
Management Protocols	NETCONF, WebSocket, REST/HTTPS, TR-069 (Customer Driven)
Network	IPv4, IPv6, IPsec, WireGuard, VLANs, MOCN
Core Connectivity	5G Standalone (SA)
Wi-Fi Security	WPA3-Enterprise, Passpoint/Hotspot 2.0
Encryption	AES, CCMP, TKIP
Configuration	Zero-Touch Provisioning (via NetLiNQ), CLI
REGULATORY, SAFETY AND ENVIRONMENTAL COMPLIANCE*	
FCC Part 15C	Yes
FCC Part 15E	Yes
FCC Part 27	Yes
FCC Part 96	Yes
RED 2014/53/EU	Yes
ROHS 3 & REACH Directives	Yes
IEC 62368-1 SAFETY	Yes
ISED RSS-198	Yes
ISED RSS-247,248	Yes
CBRS OnGo Alliance	Yes
Wi-Fi Alliance	Yes
MECHANICAL	
Dimensions (L x W x D)	10.8" x 10.8" x 4.0" (275 x 275 x 101 mm)
Weight	8.27 lbs (3.75 kg)
Operational Temperature	32 °F to 122 °F (0 °C to 50 °C)

*Network Operators are responsible to adjust and set radio power (and EIRP) to meet country and local regulatory limits.





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