BLiNQ))
NETWORKS

PCW-400i

Indoor Base Station

Where 5G Meets Wi-Fi

BLiNQ
N E T W O R K S

Indoor Integrated Enterprise 5G & Wi-Fi Small Cell

The PCW-400i Wi-Fi enabled 5G small cell is highly capable in resolving new enterprise challenges. This includes seamless mobility, reliability, and cloud-native security, providing the coverage and connection resiliency that 5G intended.

As a 5GNR fully integrated small cell, it operates in n48, n77 and n78 bands*, in addition to the three bands from Wi-Fi 7 standard and supports up to 128 users at the same time. This level of integration introduces a unique low-cost entry point for small and medium-sized businesses to take connectivity to a new level.

With a sleek and compact design, the PCW-400i offers unprecedented data capacity and user QoE by combining 5G and Wi-Fi together in an easy to install and operating solution. Optimized to mount on ceilings, it supports simultaneous 5G and Wi-Fi connectivity enabling frequency redundancy and interference mitigation.

Deployment is simplified by an EasyLiNQ onboarding app that provides step-by-step instructions for proper installation and placement of one or multiple PCW-400i without the need for complex RF planning exercises and configurations, thus eliminating the need for expensive professional installation assistance.

The PCW-400i is managed by BLiNQ's NetLiNQ EMS and SON suite and can interface with any third-party SMO (Service Management & Orchestration) based on standard O1 (O-RAN) management interfaces.

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 software.

*Other bands available by request

5GNR Dual 2T2R / 4T4R Cell, 200 MHz OBW/IBW

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

2T2R Triband, Wi-Fi 6E/7 AP

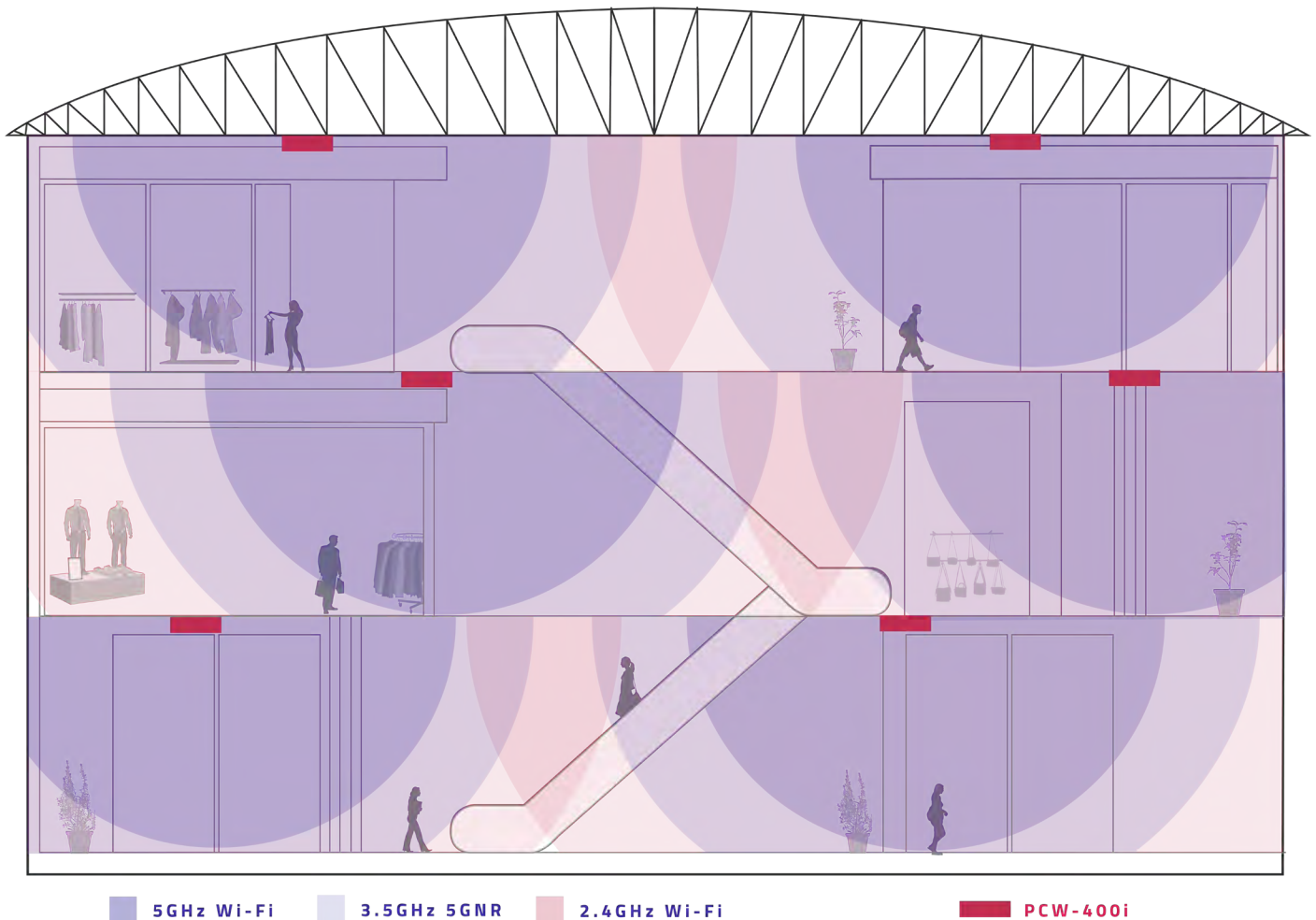**Zero-Touch Provisioning (Automatic Onboarding)**

PCW-400i

Additional ordering options:

- **5GNR Only (No Wi-Fi)**
  For lower cost
- **Embedded UPF**
  For low latency use cases
- **Dual RAT (LTE and 5GNR)**
  For 5G NSA Networks
- **Premium Connectivity**
  For 200 MHz OBW and up to 128 UEs

Other features and benefits:

- Supports 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
- Supports Carrier Aggregation up to 4 CC
- Supports All 5G FR1 TDD Configurations
  Applies to both Dual 2T2R and 4T4R
- Supports VoNR
- Supports 1588v2
- Supports Mobility

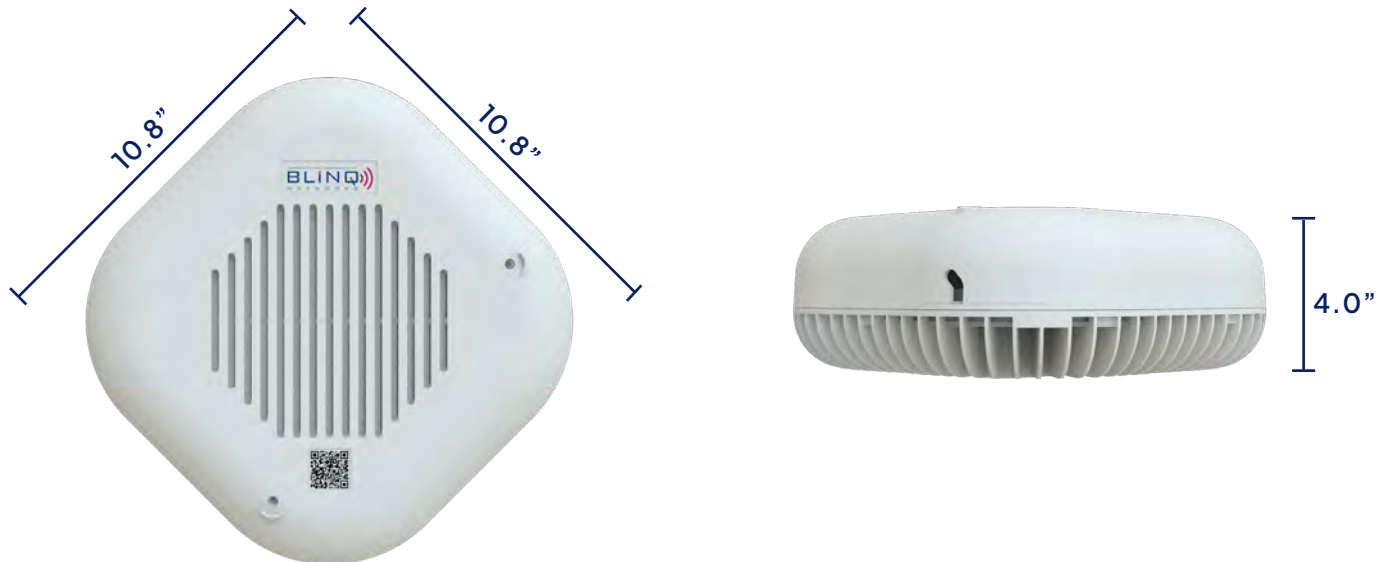| | 5GHz Wi-Fi | | 3.5GHz 5GNR | | 2.4GHz Wi-Fi | | PCW-400i |

RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	3.3–4.2 GHz (n48/n77/n78)
5G RF	4T4R, MU-MIMO
5G Max. Tx Power Per Port / Aggregate (4×4)	23 / 29 dBm
5G Antenna Peak Gain	7 dBi
5G IBW/OBW	200/100 MHz (200/200 MHz Optional)
5G Channel BW	10, 20, 40, 60, 100 MHz
Dual RAT	5G/LTE option
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 (2×2)	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 (5ms)	DDDSUUDDDD, DDSSUUDDDD, DDDSUUUUDD
5G Number of Component Carriers (CC)	Up to 4CC
Max. Modulation	DL: 256 QAM / UL:64 QAM
Aggregated Throughput	Wi-Fi: 4 Gbps 5GNR: 2.4 Gbps
Power Consumption	65 W
Synchronization	1588v2 and SyncE
5G Citizens Broadband Radio Service (CBRS)	CBSD Cat. A
Wi-Fi Automated Frequency Coordination (AFC) Support	Standard Power
Embedded UPF	Optional Hardware SKU
ELECTRICAL & INTERFACES	
Physical Interfaces	10G Ethernet with PoE & 10G SFP+
Power	PoE (IEEE 802.3bt)

PCW-400i
Specifications

SOFTWARE	
Management Protocols	O-RAN based (NETCONF, WebSocket, REST/HTTPS), TR-069/TR-369 (Customer Driven)
Network	IPv4, IPv6, IPsec, WireGuard, VLANs, MOCN
Core Connectivity	5G Standalone (SA)
Wi-Fi Security	WPA3-Enterprise, Firewall, Passpoint/Hotspot 2.0
Encryption	AES, CCMP, TKIP
Configuration	Zero-Touch Provisioning (via EMS), CLI

SAFETY AND ENVIRONMENTAL COMPLIANCE	
FCC Title 47 CFR Part 15, Subpart B	Yes
FCC Part 96 Base Station	Yes
UL 62368-1 Safety	Yes
CBRS OnGo Alliance	Yes
ETSI 301 908-14	Yes
ETSI 301 908-1	Yes
ETSI 301 489-50	Yes
ETSI 300 019-1-3	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 140 °F (0 °C to 50 °C)

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