



PCW-400i

Indoor Base Station

Where 5G
Meets Wi-Fi



Dual Integrated Enterprise 5G Small Cell & Wi-Fi AP

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 5G NR 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. Note that the PCW-400i can operate as a dual band, dual cell fully integrated gNodeB. 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*



**5G NR 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

Overview

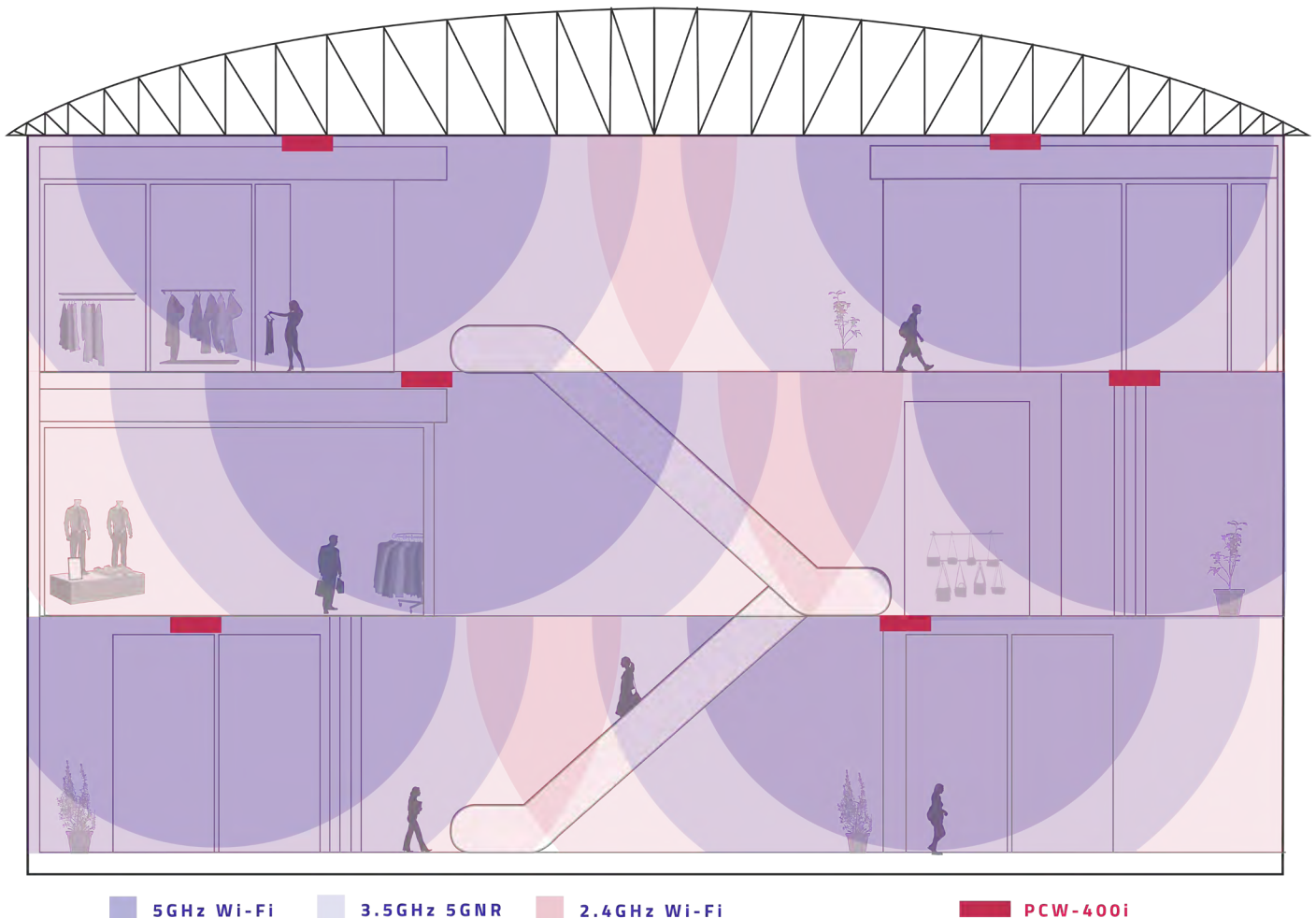


Additional ordering options:

- 5G NR Only (No Wi-Fi)
For lower cost
- Embedded UPF
For low latency use cases
- Dual RAT (LTE and 5G NR)
For 5G NSA Networks
- Higher 200 MHz OBW
For large total throughput applications
- LTE Only (SW Variant)
For 4G LTE Support

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



PCW-400i

Specifications



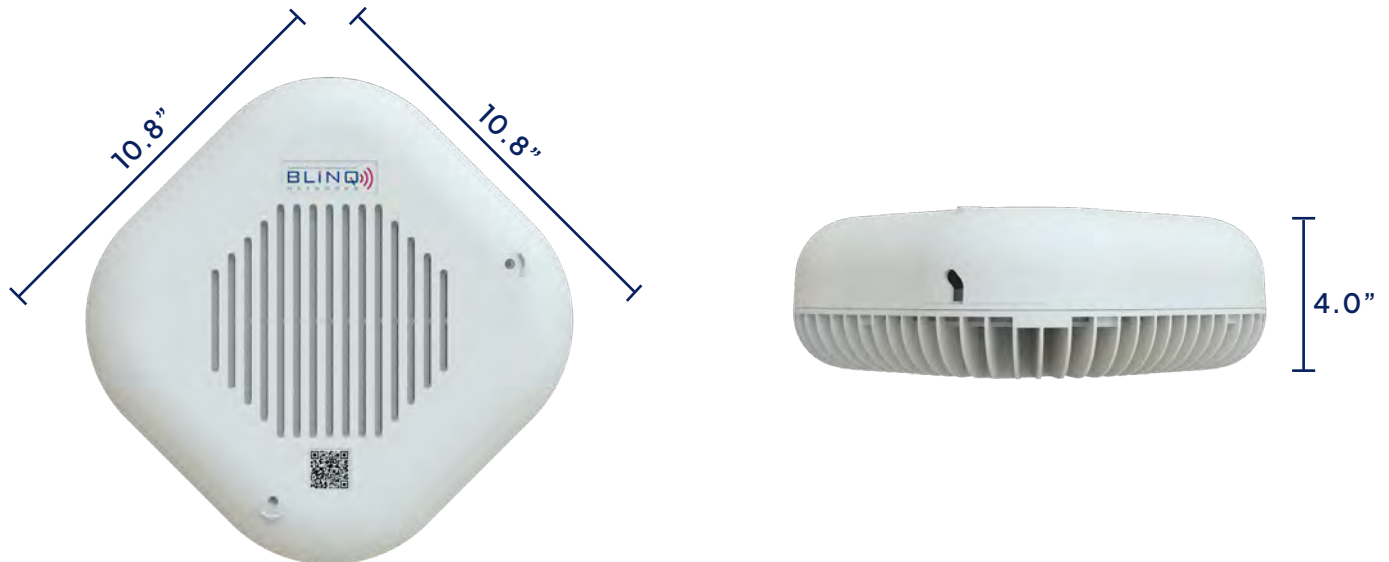
RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	3.3-4.2 GHz (n48/n77/n78)
5G RF	4T4R, MU-MIMO
5G Max. Tx Power Per Port / Aggregate (4x4)	23 / 29 dBm
5G Antenna Peak Gain	7 dBi
5G IBW/OBW	200/100 MHz (200/200 MHz Optional)
5G Channel BW	10, 20, 40, 60, 100 MHz
Dual RAT	5G/LTE option
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 (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	
5G NR Radio Standard Support / Quality of Service	5G NR / 3GPP Compliance
5G NR Duplex Mode	TDD
Frame Structure (5ms)	DDDSUDDDD, DDSSUDDDD, DDSSUUUDD
5G Number of Component Carriers (CC)	Up to 4CC
Max. Modulation	DL: 256 QAM / UL: 64 QAM
Aggregated Throughput	Wi-Fi: 4 Gbps 5G NR: 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
Network	IPv4, IPv6, IPsec, WireGuard, VLANs, MOCN
Core Connectivity	5G Standalone (SA) Optional: 5G Non-Standalone (NSA); 4G LTE
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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