



CONNECTING COMMUNITIES THROUGH
WIRELESS SOLUTIONS



PCW-400i

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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.



**5G NR Dual 2T2R / 4T4R Cell,
200 MHz OBW/IBW**



**Max. Throughput: 6.5 Gbps
Of Aggregated 5G & Wi-Fi**



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

PCW-400i

OVERVIEW

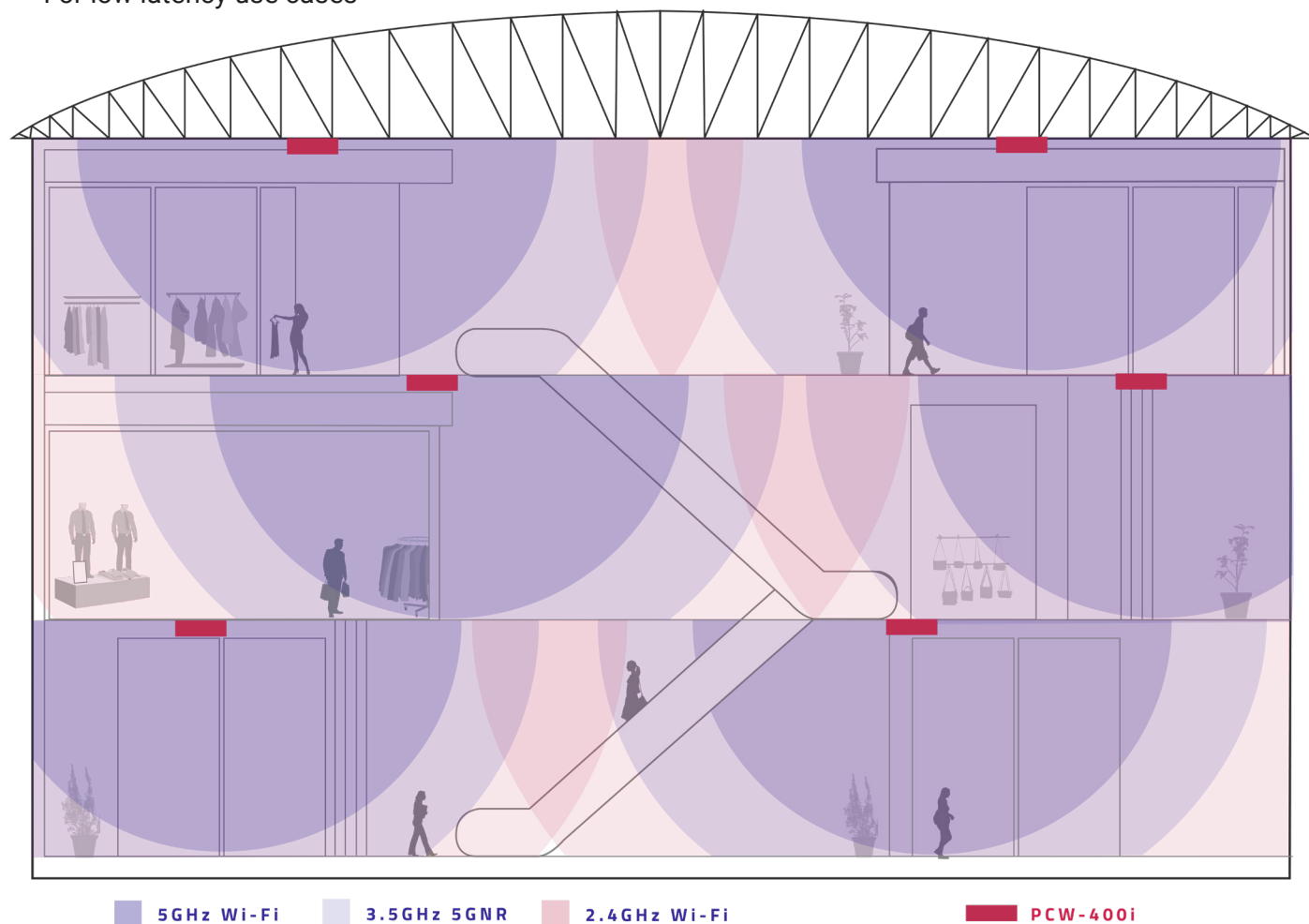


ADDITIONAL ORDERING OPTIONS:

- **gNB only (No Wi-Fi)**
For lower cost
- **With Embedded UPF**
For low latency use cases

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 1588v2**



PCW-400i

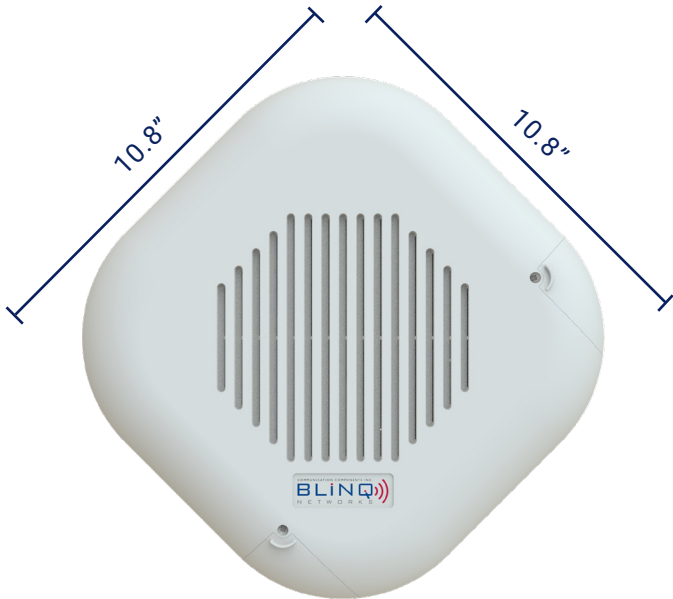
SPECIFICATIONS

RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	3.3-4.2 GHz (n48/n77/n78)
5G RF	4T4R, MU-MIMO
5G EIRP	Up to 36 dBm
5G Antenna Peak Gain	7 dBi
5G IBW/OBW	200/200 MHz
5G Channel BW	10, 20, 40, 80, 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. Aggregate TX Power (4x4)	29 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	DDDSUDDDD 5ms, Special Frame Format 6 [10-0-4]
5G Number of Component Carriers (CC)	Up to 4CC
Max. Modulation	DL: 256 QAM / UL: 64 QAM
Aggregated Throughput	Wi-Fi: 4.5 Gbps 5G NR: 2 Gbps
Power Consumption	70 W
Synchronization	1588v2
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

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SPECIFICATIONS

SOFTWARE	
Embedded UPF	Optional
Management Protocols	O-RAN based (NETCONF, WebSocket, REST/HTTPS), TR-069, TR-369
Network	IPsec, WireGuard
5GC Connectivity	Stand-alone (SA)
Wi-Fi Security	WPA3-Enterprise, Firewall, Passpoint/Hotspot 2.0
Configuration	WebUI, CLI, NMS
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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