

CONNECTING COMMUNITIES THROUGH
WIRELESS SOLUTIONS



PCW-400i
PCW-400i





PCW-400i



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**



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



**Max. Throughput: 7 Gbps
Of Aggregated 5G & Wi-Fi**



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

PCW-400i

OVERVIEW

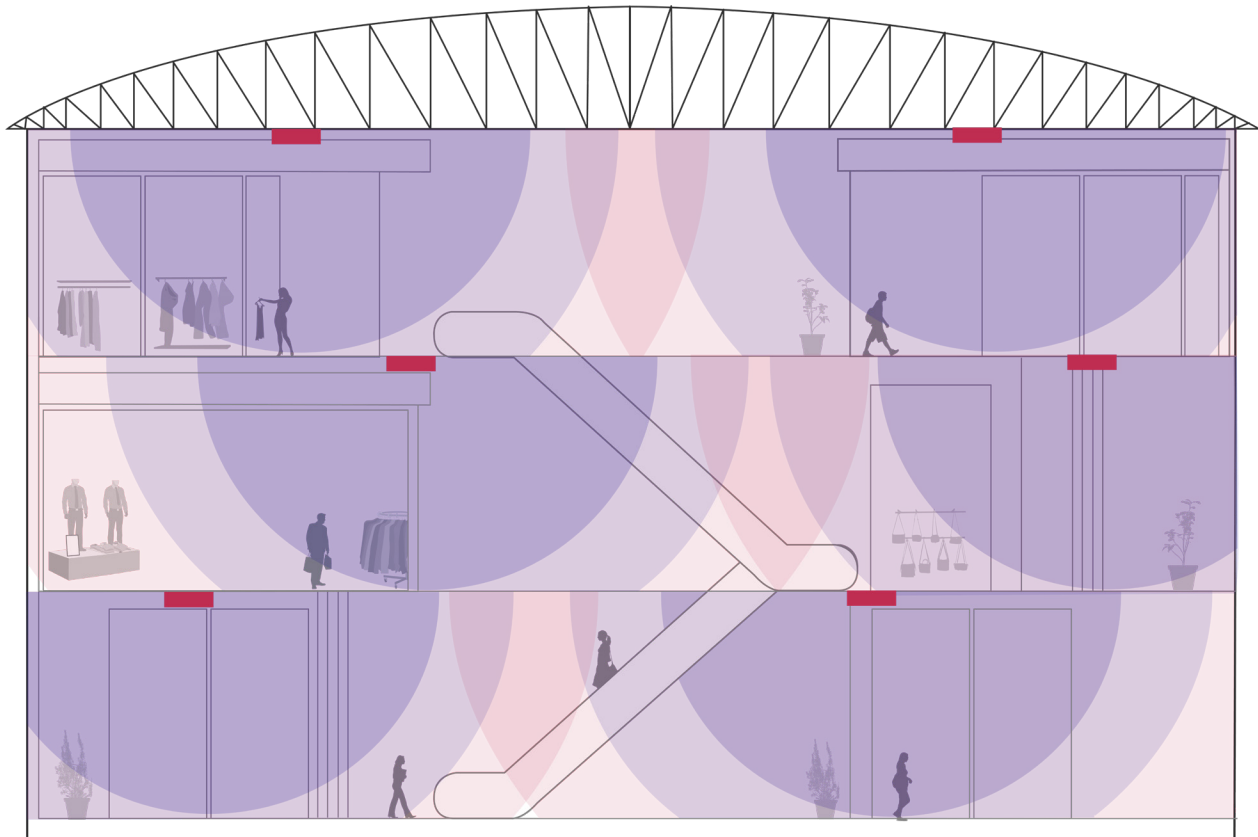


ADDITIONAL ORDERING OPTIONS:

- **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
- **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**



■ 5GHz Wi-Fi

■ 3.5GHz 5G NR

■ 2.4GHz Wi-Fi

■ PCW-400i

PCW-400i

SPECIFICATIONS

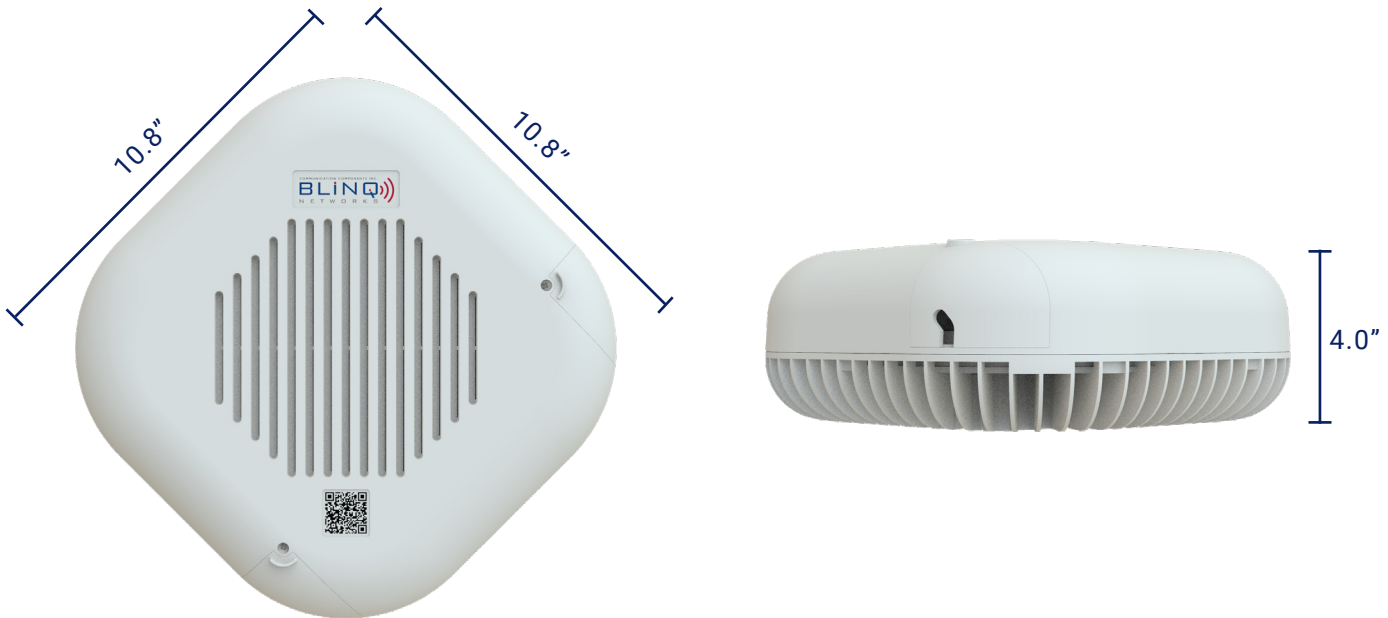


| RADIO SPECIFICATIONS | |
|---|--|
| 3GPP Compliance | 3GPP Rel. 16 |
| 5G Frequency Bands | 3.3-4.2 GHz (n48/n77/n78) |
| 5G RF | 4T4R, MU-MIMO |
| 5G EIRP | Up to 36 dBm |
| 5G Antenna Peak Gain | 7 dBi |
| 5G IBW/OBW | 200/200 MHz |
| 5G Channel BW | 10, 20, 40, 80, 100 MHz |
| Dual RAT | 5G/LTE 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 (5ms) | DDDSUDDDD, DDSSUDDDD |
| 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: 3 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 |
| 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 | IPsec, WireGuard |
| Core Connectivity | 5G Standalone (SA) Optional: 5G Non-Standalone (NSA); 4G LTE |
| Wi-Fi Security | WPA3-Enterprise, Firewall, Passpoint/Hotspot 2.0 |
| 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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