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NETWORKS

PCW-400

Outdoor Small Cell

Where 5G Meets Wi-Fi

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Outdoor Integrated Enterprise 5G & Wi-Fi Small Cell

The PCW-400 Wi-Fi enabled 5G outdoor Small Cell is extremely versatile and purpose-built for AI-powered enterprise and smart city deployments. It can be effortlessly implemented into a variety of edge computing scenarios, supporting real-time AI intelligence, computer vision applications, and smart traffic or environment monitoring systems.

Operating as a fully integrated small cell, the PCW-400 delivers unprecedented data capacity and enhanced user Quality of Experience (QoE), ensuring low-latency, high-throughput connectivity critical for AI and machine learning workloads at the edge.

This 5GNR small cell supports bands* n48, n77, and n78, along with three Wi-Fi 7 bands, enabling up to 128 concurrent users. Its dual 5G and Wi-Fi design ensures frequency redundancy and interference mitigation, making it ideal for 5G coverage extension, Neutral Host Networks, and Private Network deployments.

The PCW-400 can be easily mounted on lamp posts or building facades to provide 180° coverage. It can also be deployed in a back-to-back configuration for full 360° coverage—enabling scalable, AI-driven infrastructure across dense urban and industrial environments.

Administered by BLiNQ's NetLiNQ Management Suite, the PCW-400 can interface with any third-party SMO (Service Management & Orchestration) based on standard O1 (O-RAN) management interfaces.

For CBRS band networks, the PCW-400 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)
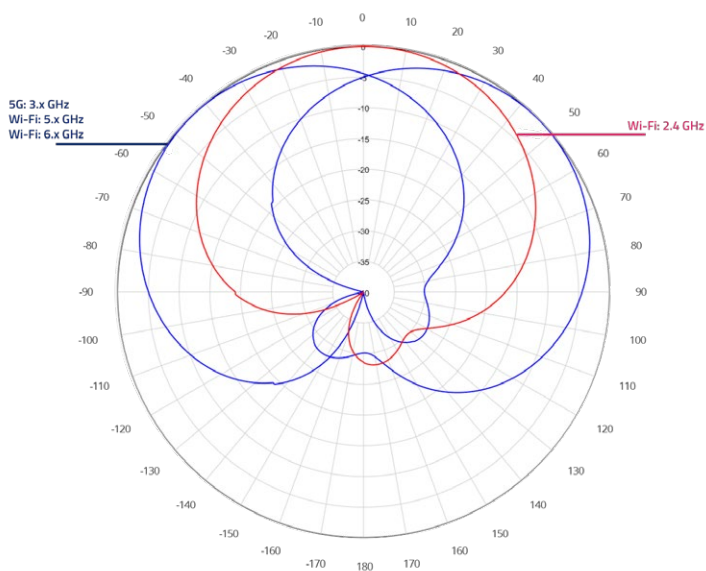
PCW-400
Overview

Additional Ordering Options:

- **5GNR Only (No Wi-Fi)**
  PC-400

- **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.

- **180° Coverage**
  Install 2 units back-to-back for a 360° coverage

- **Integrated Antenna**
  Hassle-free, simple deployment

- **Carrier Aggregation**
  Up to 4 CC

- **All 5G FR1 TDD Configurations**

- **VoNR**

- **GPS, 1588v2 and SyncE**

- **Mobility**

- **Mounting Bracket** included in Unit Package

5G: 3.x GHz
Wi-Fi: 5.x GHz
Wi-Fi: 6.x GHz

Wi-Fi: 2.4 GHz

10.4”

5.2”

20.6”

PCW-400
Specifications

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RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	3.3–4.2 GHz (n48/n77/n78)
5G RF	4T4R (180 deg. coverage)
5G Max. Tx Power Per Port / Aggregate (2×2)	23 / 26 dBm
5G Antenna Peak Gain	14 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 5.x and 6.x GHz RF	Two 2×2 90° Beams (180° Coverage)
Wi-Fi 2.4 GHz RF	2×2 90° Beam (90° Coverage)
Wi-Fi Max. Tx Power Per Port / Aggregate (2×2)	23 / 26 dBm
Wi-Fi Antenna Peak Gain	10 dBi (For all Bands)
Wi-Fi Channel BW	Up to 320 MHz
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, 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	70 W
Synchronization	GPS, 1588v2 and SyncE
5G Citizens Broadband Radio Service (CBRS)	CBSD Cat. A
Wi-Fi Automated Frequency Coordination (AFC) Support	Standard Power

PCW-400
Specifications

ELECTRICAL & INTERFACES	
Physical Interfaces	10G Ethernet with PoE++ & 10G SFP+
Power	PoE++ (IEEE 802.3bt)
SOFTWARE	
Management Protocols	NETCONF, WebSocket, REST/HTTPS, TR-069 (Customer Driven)
Networking	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)	20.6" x 10.4" x 5.2" (525 x 266 x 133 mm)
Weight	22 lbs (10 kg)
Operational Temperature	-40 °F to 140 °F (-40 °C to 60 °C)
Rating	IP67

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