



PCR-401i

Ruggedized Indoor Small Cell

Enabling AI in
the Enterprise



Durable Design with Reliable 5G Connectivity

The PCR-401i 5G Small Cell empowers enterprises to thrive in today's fast-evolving, AI-driven world. It delivers seamless mobility, reliability, and built-in cloud-native security—ensuring the coverage, performance, and resilience needed for real-time data processing and workload optimization.

As a fully integrated 5GNR small cell, the PCR-401i operates in bands* n48, n77, and n78 and supports up to 128 concurrent users. This high-density connectivity is ideal for environments running edge applications or IoT systems powered by AI analytics.

The PCR-401i combines a compact design with nearly 1 GHz of 5G spectrum capacity, boosting Quality of Experience (QoE) through frequency redundancy and interference mitigation. Its easy deployment supports AI-driven network management and automation, creating a strong foundation for digital transformation.



Administered by BLINQ's NetLiNQ Management Suite, this Small Cell also supports interoperability with third-party Service Management and Orchestration (SMO) systems through standard interfaces such as NETCONF, WebSockets, and REST/HTTPS.

For CBRS band networks, the PCR-401i 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: 2.4 Gbps



IP 52 Rating



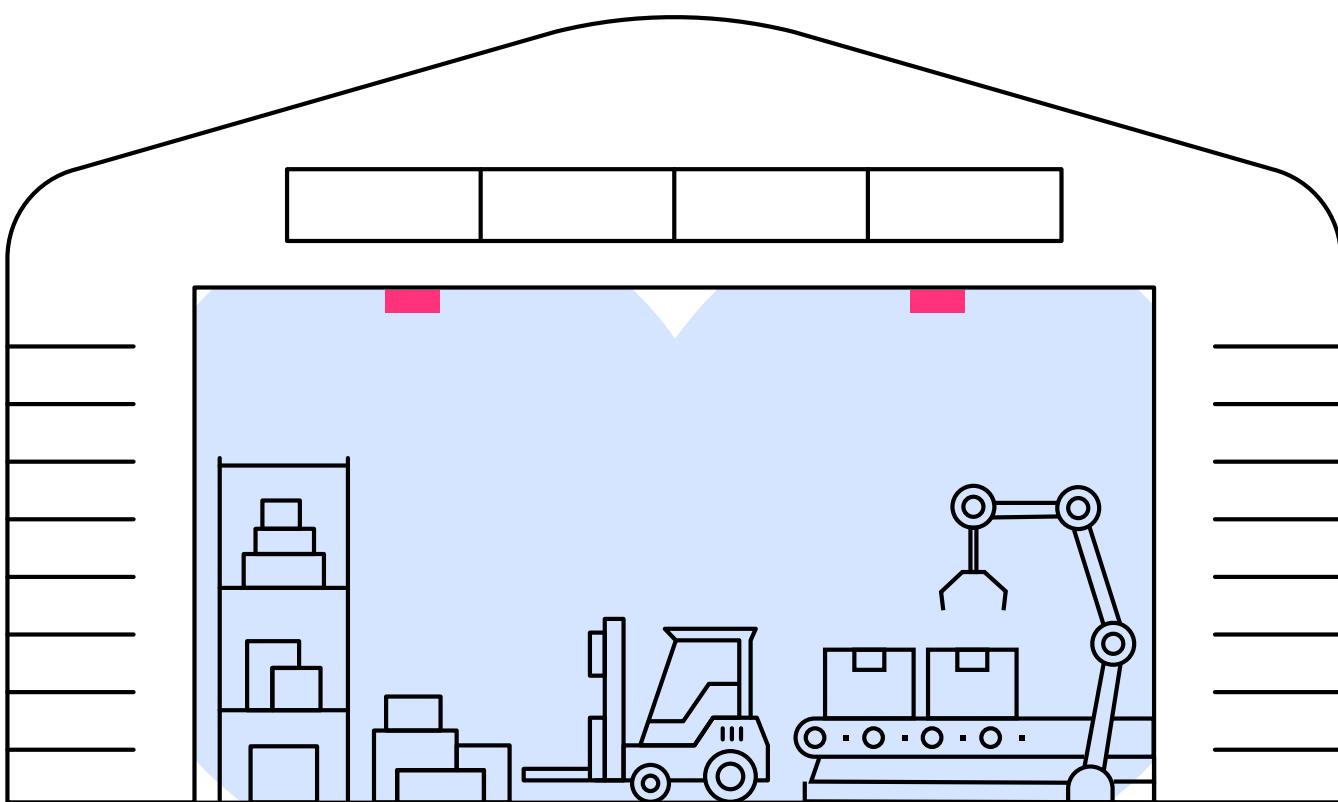
**Zero-Touch Provisioning
(Automatic Onboarding)**

Additional Ordering Options:

- **Premium Connectivity** – 200 MHz OBW & 128 UEs

Supported Features & Benefits:

- **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
- **Carrier Aggregation**
Up to 4 CC
- **All 5G FDD TDD Configurations**
- **VoNR**
- **1588v2 and SyncE**
- **Mobility**
- **Mounting Bracket** included in Unit Package



PCR-401i

Specifications



RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	3.3–4.2 GHz (n48/n77/n78)
5G RF	4T4R
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, 30, 40, 60, 80, 100 MHz
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 (5ms), DDDSUUUUDD (5ms), DDDSU (2.5ms)
5G Number of Component Carriers (CC)	Up to 4CC
Max. Modulation	DL: 256 QAM / UL: 256 QAM
Aggregated Throughput	2.4 Gbps
Power Consumption	42 W
Synchronization	1588v2 and SyncE, GPS (Optional)
5G Citizens Broadband Radio Service (CBRS)	CBSD Cat. A
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)
Network	IPv4, IPv6, IPsec, WireGuard, VLANs, MOCN
Core Connectivity	5G Standalone (SA)
Configuration	Zero-Touch Provisioning (via NetLiNQ), CLI

PCR-401i

Specifications



REGULATORY, SAFETY AND ENVIRONMENTAL COMPLIANCE*	
FCC Part 27	Yes
FCC Part 96	Yes
RED 2014/53/EU	Yes
ROHS 3 & REACH Directives	Yes
ISEDRSS-198	Yes
IEC 62368-1 SAFETY	Yes
CBRS OnGo Alliance	Yes
MECHANICAL	
Dimensions (L x W x D)	13.7" x 11" x 4.03" (348 x 280 x 101 mm)
Weight	8.27 lbs (3.75 kg)
IP Rating	IP 52
Operational Temperature	32 °F to 122 °F (0 °C to 50 °C)

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



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