BLiNQ
NETWORKS

MCRF-400

Connectorized Micro Cell

The Future of Seamless Connectivity

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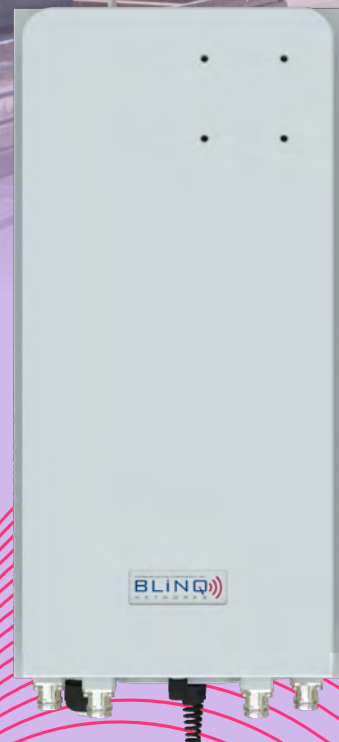
High Power, High Capacity Seamless 5G Coverage

Unlock the future of seamless connectivity with our state-of-the-art 5G Micro Cell, equipped with Zero-Touch Provisioning technology. BLiNQ's MCRF-400 is designed to deliver unmatched coverage and capacity in bands* n48, n77/n78 and upper n77, ensuring robust and high-speed connectivity across vast areas, from dense urban centers to sprawling rural regions.

Designed to provide the maximum capacity for CBRS networks when paired with a 17 dBi antenna, these micro cells offer exceptional data throughput and low latency, supporting a multitude of devices and applications.

Managed through BLiNQ's NetLiNQ Management Suite, the MCRF-400 also supports interoperability with third-party Service Management and Orchestration (SMO) systems via standard interfaces, including NETCONF, WebSockets, and REST/HTTPS.

For CBRS band networks, the MCRF-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.

Whether it's streaming ultra-high-definition video, powering IoT devices, or enabling real-time virtual reality experiences, BLiNQ's MCRF-400 is built to meet and exceed the demands of today's hyper-connected world.

Other bands available by request

- **3 Different SKUs based on Frequency Band**
- **5GNR 4T4R**
- **Max. Throughput: 2.4 Gbps**
- **Zero-Touch Provisioning (Automatic Onboarding)**

Other features and benefits:

- Supports Carrier Aggregation up to 4 CC
- Supports All 5G FR1 TDD Configurations
- Supports VoNR
- Supports GPS and 1588v2
- Supports Mobility
- Up to 200 MHz OBW
- MCRF-400 package includes external GPS antenna, cable and mounting bracket

Ordering Options:

- **MCRF-400-35**
  Covers 3.4 – 3.8 GHz (n77 / n78)
- **MCRF-400-36**
  Covers 3.55 – 3.7 GHz (n48)
- **MCRF-400-38**
  Covers 3.7 – 4.0 GHz (Upper n77 / n78)
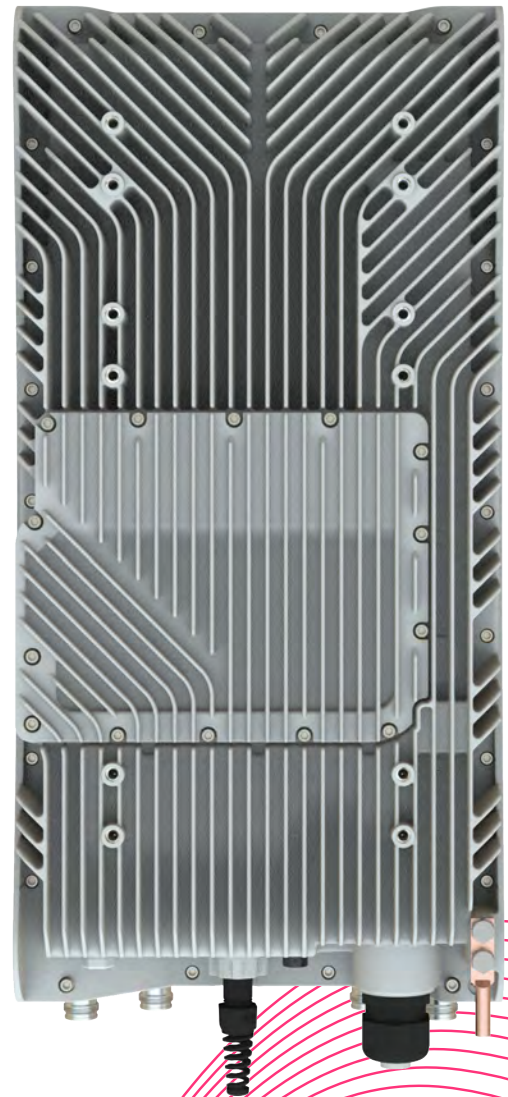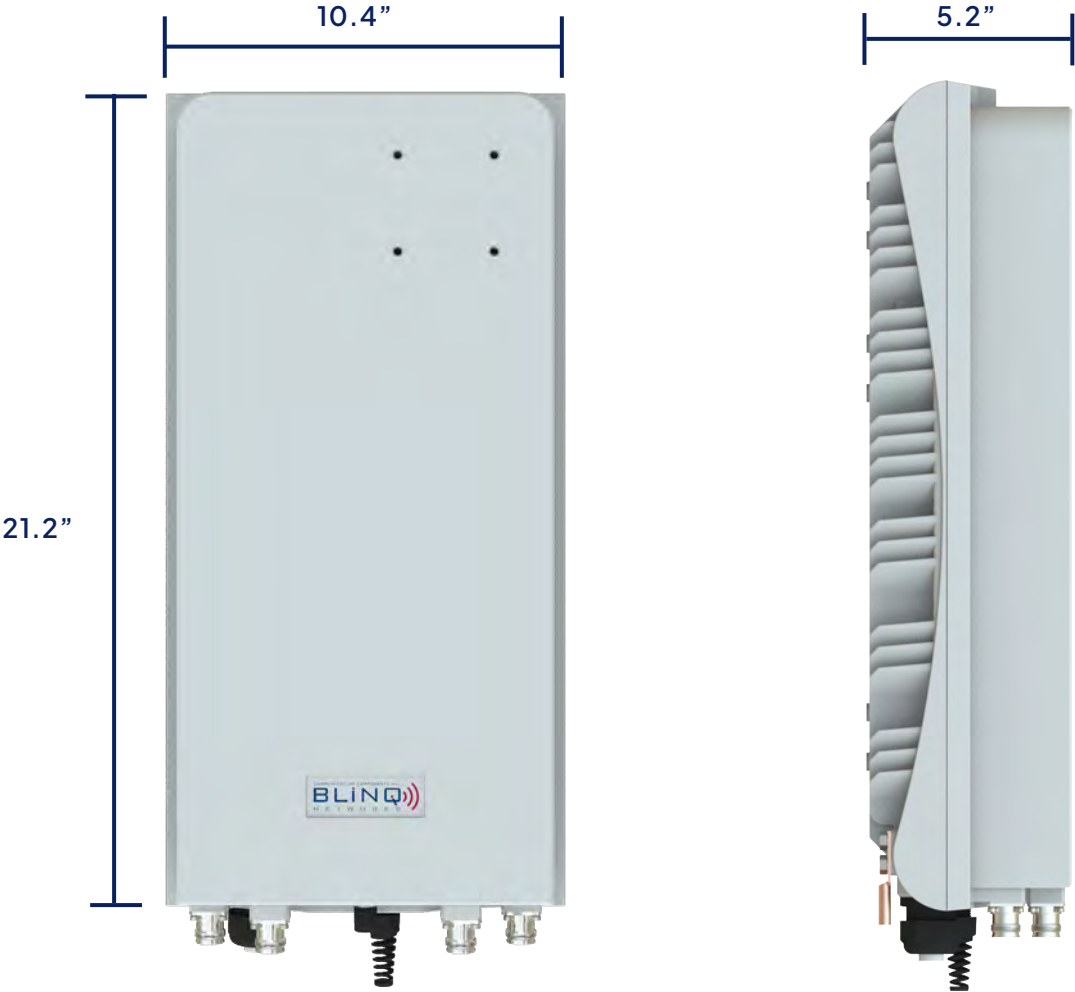
MCRF-400
Specifications

RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	**MCRF-400-35**: 3.4–3.8 GHz **MCRF-400-36**: 3.55–3.7 GHz (CBRS Model) **MCRF-400-38**: 3.7–4.0 GHz
5G IBW/OBW	200/100 MHz (200/200 MHz Optional)
5G RF	4T4R
5G Max. Tx Power Per Port*	37 dBm
5G Channel BW	10, 20, 30, 40, 60, 80, 100 MHz
PERFORMANCE & ATTRIBUTES	
No. of UEs Supported	Up to 256
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	180 W
Synchronization	GPS and 1588v2
5G Citizens Broadband Radio Service (CBRS)	CBSD Cat. B
ELECTRICAL & INTERFACES	
Physical Interfaces	2.5G RJ45, SFP+, Push-Pull Power Connector, TNC (External GPS), 4 x 4.3–10 Connectors (RF Connection)
Power	48V DC
SOFTWARE	
Management Protocols	NETCONF, WebSocket, REST/HTTPS, TR-069 (Customer Driven)
Networking	IPv4, IPv6, IPsec, WireGuard, VLANs, MOCN
Core Connectivity	5G Standalone (SA)
Configuration	Zero-Touch Provisioning (via NetLiNQ), 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
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)	21.2" x 10.4" x 5.2" (538 x 263 x 133 mm)
Weight	26.4 lbs (12 kg)
Operational Temperature	-40 °F to 140 °F (-40 °C to 60 °C)
Rating	IP67

10.4"

5.2"

21.2"