



MCRF-400

Connectorized Micro Cell

The Future
of Intelligent
Connectivity



High Power, High Capacity Seamless 5G Coverage

Unlock the future of intelligent, adaptive connectivity with our state-of-the-art 5G Micro Cell, featuring Zero-Touch Provisioning and machine learning-driven network optimization. BLiNQ's MCRF-400 leverages AI-based spectrum management to deliver unmatched coverage and capacity across bands* n48, n77/n78, and upper n77, ensuring robust, high-speed connectivity from dense urban hubs to sprawling rural regions.

Designed to provide the maximum capacity for CBRS networks when paired with a 17 dBi antenna, the MCRF-400 dynamically adjusts resources for peak efficiency. This Micro Cell enables real-time analytics, predictive traffic handling, and ultra-low-latency performance, supporting a wide ecosystem of devices, applications, and emerging AI-driven use cases.

Administered by BLiNQ's NetLiNQ Management Suite, the MCRF-400 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 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 AI-driven MCRF-400 is built to anticipate the needs of tomorrow's hyperconnected society by laying down a future-ready ecosystem.

**Other bands available by request*



2 Different SKUs based on Frequency Band



5G NR 4T4R



Max. Throughput: 2.4 Gbps



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



MCRF-400

Overview

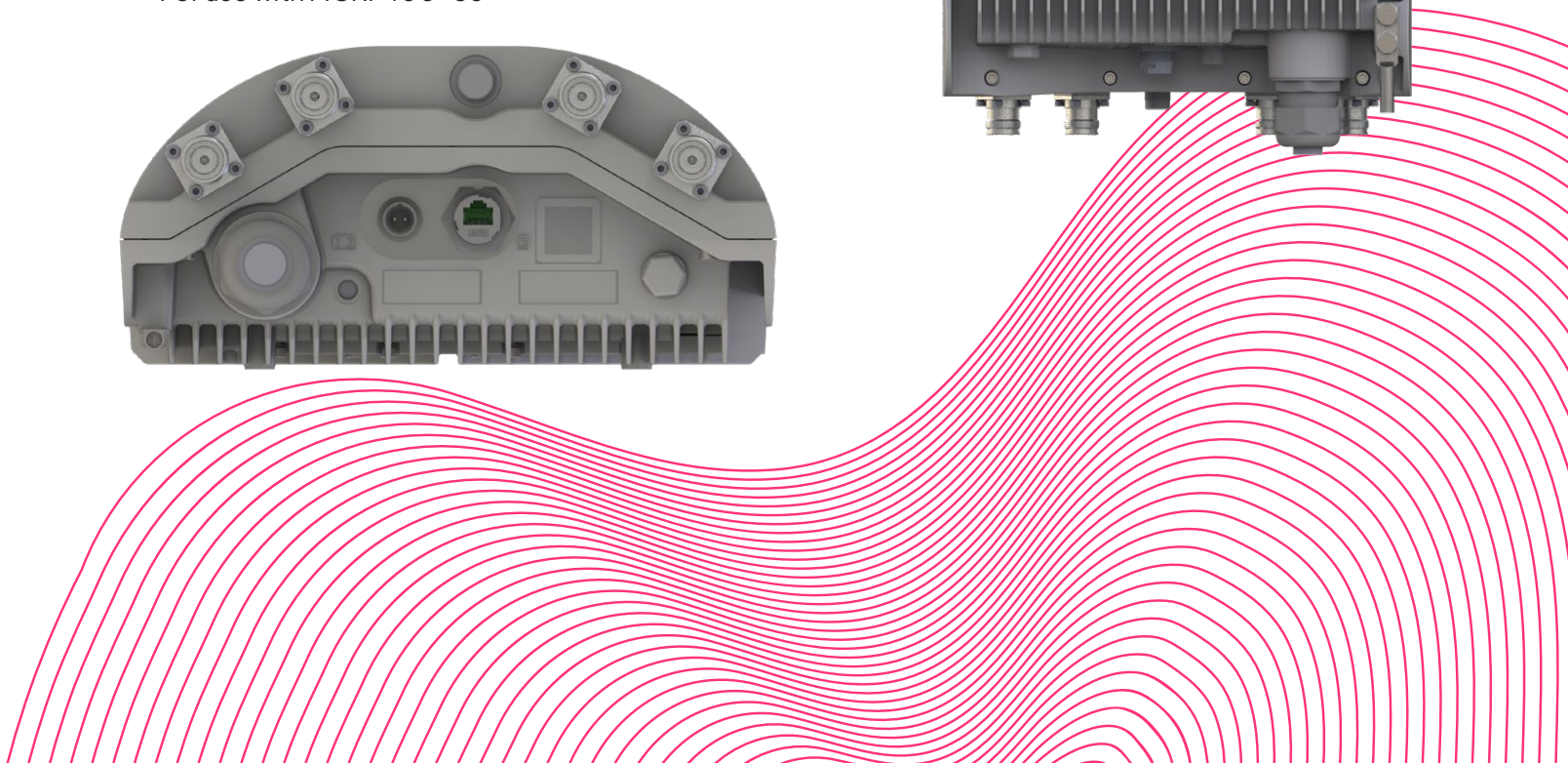
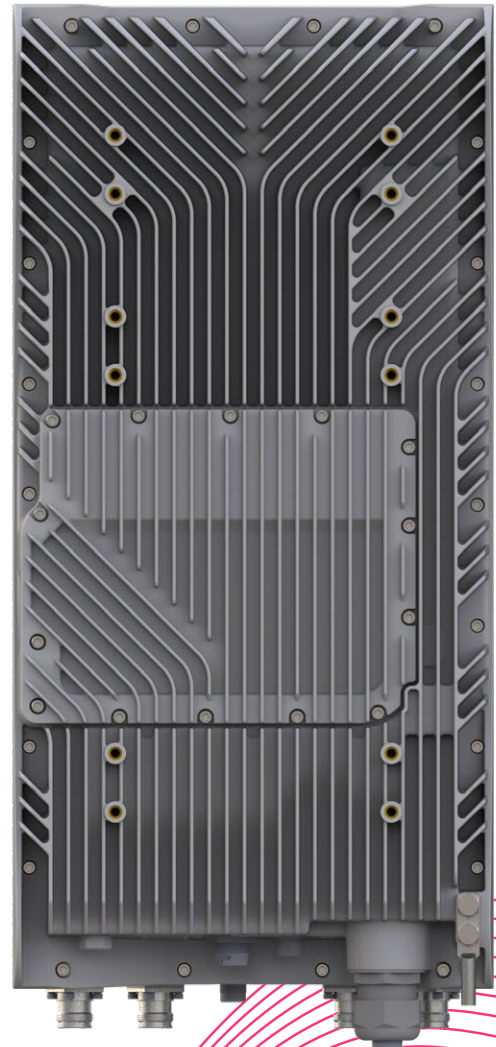


Supported Features & Benefits:

- **Carrier Aggregation**
Up to 4 CC
- **All 5G FR1 TDD Configurations**
- **VoNR**
- **GPS and 1588v2**
- **Mobility**
- **Up to 200 MHz OBW**
- MCRF-400 package includes:
 - **External GPS Antenna**
(with Cable and Mounting Bracket)
 - **Unit Mounting Bracket**

Ordering Options:

- **MCRF400-36 Small Cell Unit**
Provides coverage for 3.4 - 3.8 GHz of 5G spectrum
- **MCRF400-40 Small Cell Unit**
Provides coverage for 3.7 - 4.2 GHz of 5G spectrum
- **External Filters - Set of 4:**
 - **3.4 - 3.8 GHz (MCRF400-FLTR-3438)**
For use with MCRF400-36
 - **3.7 - 4.2 GHz (MCRF400-FLTR-3742)**
For use with MCRF400-40
 - **3.55 - 3.7 GHz (CBRS Band: MCRF400-FLTR-3537)**
For use with MCRF400-36



MCRF-400

Specifications



RADIO SPECIFICATIONS	
3GPP Compliance	3GPP Rel. 16
5G Frequency Bands	MCRF400-36: 3.4–3.8 GHz MCRF400-40: 3.7–4.2 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
5G NR Radio Standard Support / Quality of Service	5G NR / 3GPP Compliance
5G NR Duplex Mode	TDD
Frame Structure	DDDSUUDDDD (5ms), DDSSUUDDDD (5ms), DDSUUUUDD (5ms), DDSU (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	10G RJ45, 10G SFP+, Push-Pull Power Connector, TNC (External GPS), 4 x 4.3–10 Connectors (RF Connection)
Power	48V DC
SOFTWARE	
Management Protocols	NETCONF, WebSockets, 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

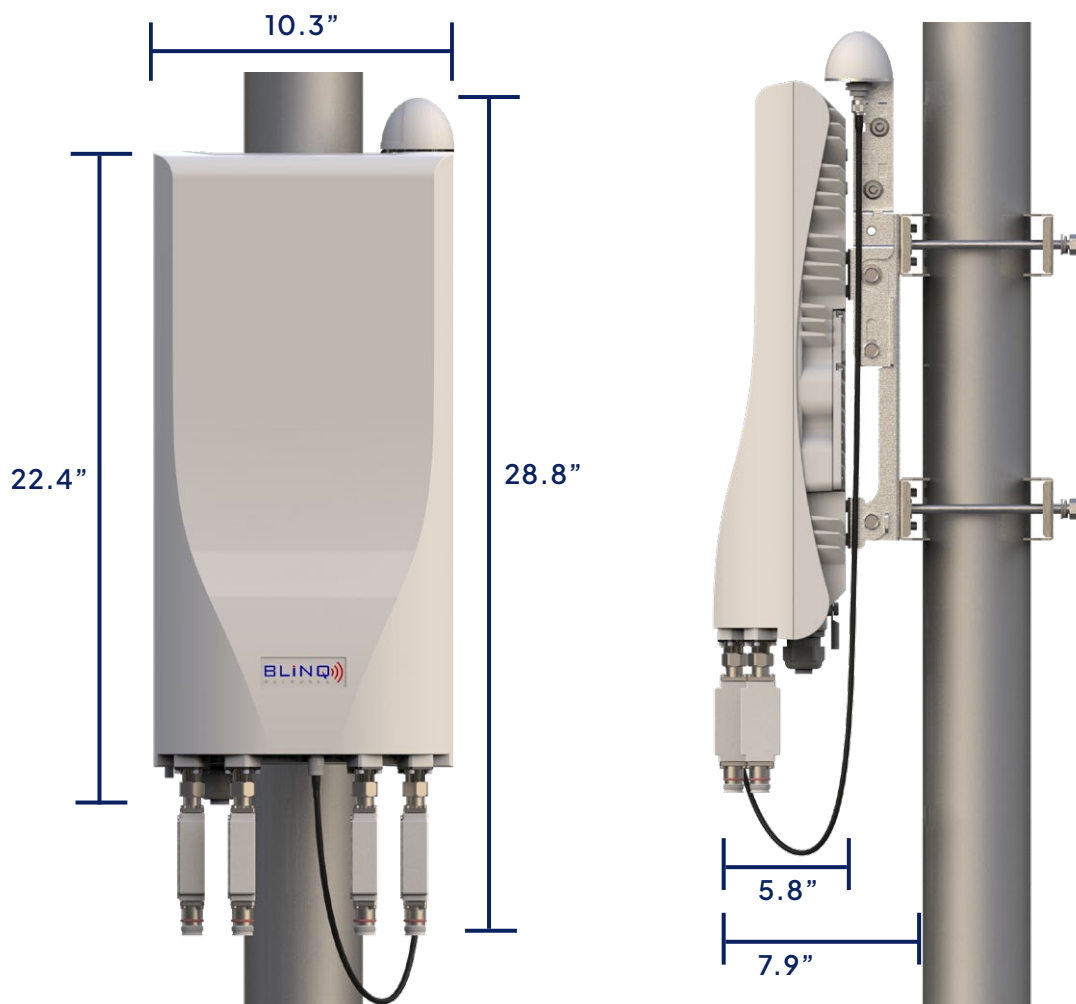
MCRF-400

Specifications



REGULATORY, SAFETY AND ENVIRONMENTAL COMPLIANCE*	
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
CBRS OnGo Alliance	Yes
MECHANICAL	
Dimensions (L x W x D)	22.4" x 10.3" x 5.8" (570 x 262 x 129 mm)
Weight	26.4 lbs (12 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.





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