

Q910

Integrated Outdoor LTE Access Point for the 3.5GHz CBRS Band



DATA SHEET



BENEFITS

STUNNING PERFORMANCE

The Ruckus Q910 offers the highest capacity available in the US CBRS band. Aggregating up to four CBRS channels, Q910 can offer over 200Mbps of combined throughput to users in high-density areas such as stadiums, outdoor malls, resorts, and enterprise campus environments.

MULTIPLE APPLICATIONS

From mobile coverage and capacity, to industrial Private LTE and neighborhood broadband, Q910 covers a broad gamut of CBRS use cases.

ADVANCED TECHNOLOGY

Q910 is packed with advanced 3GPP and proprietary technology, such as LTE-Advanced Carrier Aggregation, Self-Organizing Networks (SON), Self-Organizing Timing and Zero-Touch Provisioning™ that make the solution both extremely powerful as well as easy to deploy.

WI-FI-LIKE SIMPLICITY

Q910 is ideal for campus and neighborhood LTE wireless networks that deploy with the economics and simplicity of Wi-Fi.

LIGHTWEIGHT AND EFFICIENT

Q910 can be discreetly attached to anything from light poles to buildings, and can even hang from a cable strand. It also sips power to keep your OPEX costs in check.

OVERVIEW

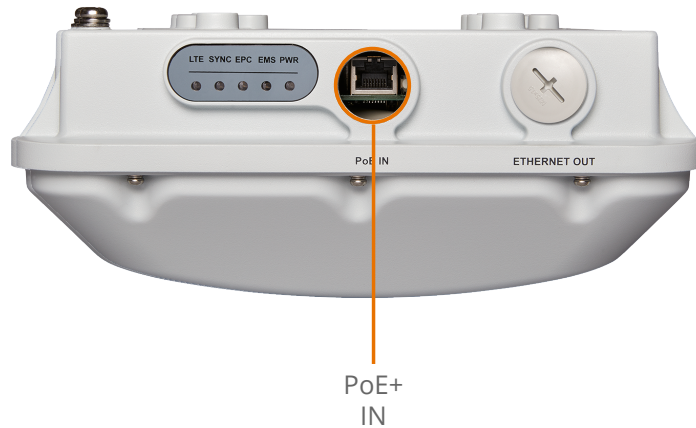
Ruckus Networks, an ARRIS Company, offers a broad portfolio of CBRS-capable LTE access points. Ruckus LTE access points include indoor, outdoor and plug-ins to existing Ruckus Wi-Fi access points.

The Ruckus Q910 is an outdoor pole, wall or strand-mounted LTE Access Point for CBRS. Q910 offers the highest CBRS capacity available in a fully-integrated, rugged outdoor package.

KEY FEATURES AND BENEFITS

- CBRS Alliance OnGo™ Certified for trusted interoperability with all CBRS equipment
- Aggregates up to 4 available CBRS channels for best-in-class capacity and performance
- CBRS Category A compliant—No professional installation required!
- PoE+ and internal BeamFlex™ antennas for deployment simplicity
- Integrated design ideal for campus Enterprise environments

PORT DETAIL



SPECIFICATIONS

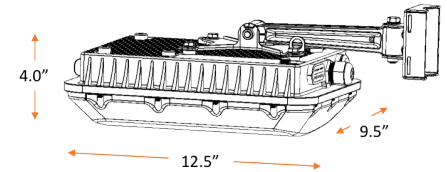
MODEL	Q910
Type	Outdoor Integrated
Technology	3GPP Release 13 TD-LTE Small Cell (eNodeB)
Frequency Band	CBRS B48 (3550-3700 MHz)
Output Power	4 ports at 24dBm per port
MIMO Configuration	Dual 2x2 MIMO
Antennas	4 Internal BeamFlex™ antennas
Max Antenna Gain	3 dBi per antenna
Max EIRP	1 W per RF Carrier
Max Bandwidth	Up to two 20 MHz RF Carriers (40 MHz total)
Bandwidth Configurations (MHz) ¹	Non-contiguous 10, 20, 10+20, and 20+20
Max Throughput ^{1,2}	200 Mbps
Max Simultaneous (RRC Connected) Users ¹	64
Timing Interface	Built-in GPS, IEEE 1588v2 PTP
Data Interface	1Gb Ethernet
Power Interface	PoE+ In (IEEE 802.3at)
Networking Protocols	IPv4/IPv6, VLAN, IPSec
Max Power Consumption	20W
EPC Support	Standard 3GPP S1 Interface
SAS Support	WINN Forum TS1.0
EMS Support	Ruckus Cloud LTE
Certifications	OnGo™, FCC Part 96, UL
Physical Ports	2x1GbE RJ-45
Size (H x W x L)	4 x 9.5 x 12.5"
Weight	5.5 lbs
Environmental	-40 C (-40°F) to +65 C (149°F), IP67
Indicator Lights	PWR: PoE+ or 12VDC on EMS: Connected to Ruckus Cloud LTE EPC: Connected to LTE controller (EPC) SYNC: Timing sync to GPS or IEEE1588 LTE: LTE service active
Box Contents	Q910, Pole mounting bracket
Ordering Information ³	P01-Q910-US02

¹ May require future software features

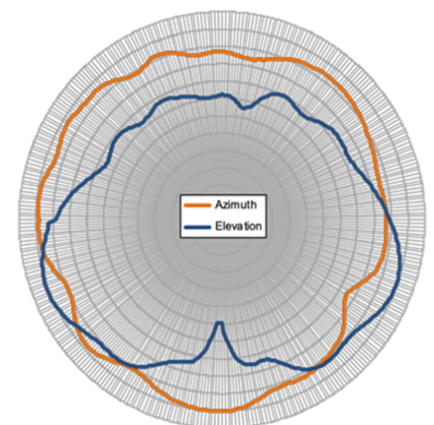
² Approximate maximum aggregate application layer uplink and downlink throughput, 4 CBRS channels (40MHz), TDD Config 2, Cat 6 and above UE client

³ Requires a CLD-RKSC or CLD-NTWK package.

DIMENSIONS



ANTENNA



Q910 Antenna Patterns