

# Q710

## High Capacity Indoor LTE Access Point for the 3.5GHz CBRS Band



### DATA SHEET



### BENEFITS

#### STUNNING PERFORMANCE

The Ruckus Q710 offers the highest capacity available in the US CBRS band. Aggregating up to four CBRS channels, Q710 can offer over 200Mbps of combined throughput to users in high-density areas such as stadiums, hotels and enterprise environments.

#### MULTIPLE APPLICATIONS

From mobile coverage and capacity, to Private LTE and neutral host networks, Q710 covers a broad gamut of CBRS use cases.

#### ADVANCED TECHNOLOGY

Q710 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

Q710 is ideal for in-building LTE wireless networks that deploy with the economics and simplicity of Wi-Fi.

#### ATTRACTIVE DESIGN

Q710 looks and feels like a Wi-Fi access point. Its attractive design is ideal for hospitality, education, large office, MTU/MDU, retail, public venues and similar environments. It can even be hidden above ceiling tiles or painted to virtually disappear into the environment.

### OVERVIEW

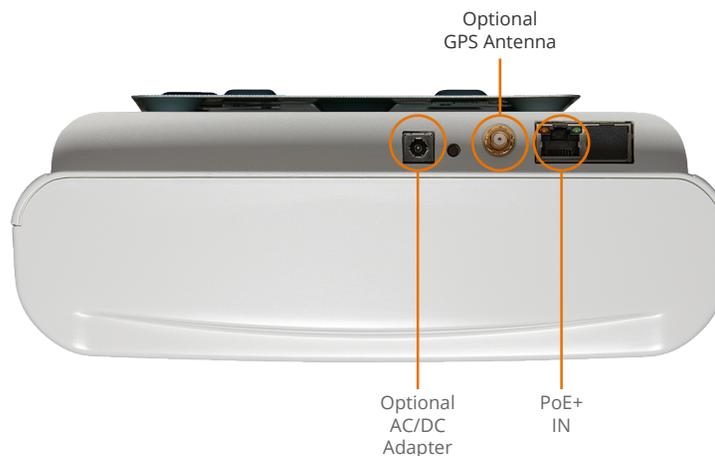
Ruckus Networks, an ARRIS Company, offers a broad portfolio of CBRS-capable LTE access points. Ruckus LTE access points include indoor, outdoor and plug-ins to existing Ruckus Wi-Fi access points.

The Ruckus Q710 is an indoor, ceiling or wall-mounted LTE Access Point for CBRS. Q710 offers the highest CBRS capacity available in an attractive, Enterprise-friendly design.

### 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 Wi-Fi like deployment simplicity
- Attractive design ideal for public venues and private enterprise environments

### PORT DETAIL



### SPECIFICATIONS

MODEL	Q710
Type	Indoor High Capacity
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) <sup>1</sup>	Non-contiguous 10, 20, 10+20, and 20+20
Max Throughput <sup>1,2</sup>	200 Mbps
Max Simultaneous (RRC Connected) Users <sup>1</sup>	64
Timing Interface	Built-in GPS, IEEE 1588v2 PTP
Data Interface	1Gb Ethernet
Power Interface	PoE+ In (IEEE 802.3at) or 12VDC@2A
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	2x 1GbE RJ-45, 12VDC In, SMA for external GPS antenna <sup>3</sup>
Size (H x W x L)	3.2 x 9.4 x 10.6"
Weight	4.34 lbs
Environmental	0 C (32°F) to +40 C (104°F)
Indicator Lights	<b>PWR:</b> PoE+ or 12VDC on <b>EMS:</b> Connected to Ruckus Cloud LTE <b>EPC:</b> Connected to LTE controller (EPC) <b>SYNC:</b> Timing sync to GPS or IEEE1588 <b>LTE:</b> LTE service active
Box Contents	Q710, mounting bracket, AC/DC adapter
Ordering Information <sup>4</sup>	P01-Q710-US02

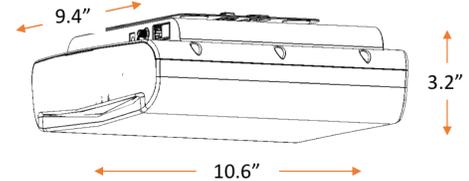
<sup>1</sup> May require future software features.

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

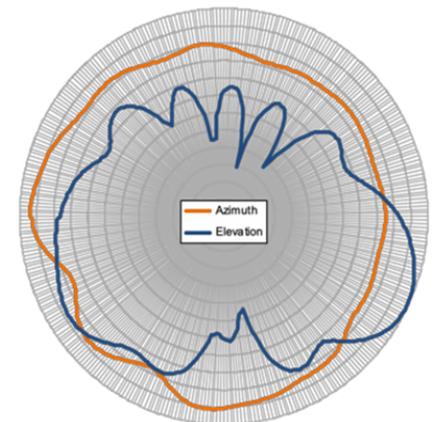
<sup>3</sup> External GPS antenna is intended for indoor use only.

<sup>4</sup> Requires a CLD-RKSC or CLD-NTWK package.

### DIMENSIONS



### ANTENNA



Q710 Antenna Patterns