



Antennas

DATA SHEET

Low Wideband Quasi-Omni Antenna

SCA360F-K2A



- Two foot (0.7 m), singleband, two port quasi-omni antenna with 360° of coverage, covering 694-960 MHz frequencies
- Two wide low band ports covering 694-960 MHz in a low weight and low profile cylindrical antenna
- Full Spectrum Compliance 694-960 Frequency Operations, including Band 14
- The Low weight and Low profile of this cylindrical antenna, makes this an ideal solution for Small Cell Densification deployments in urban and suburban environments
- Antenna is equipped with center mount post, which makes it ideal for mounting on utility, lighting and traffic poles
- Exceeds minimum PIM performance requirements
- Option for the 4.3-10 connector, which is 40% smaller than traditional 7/16 DIN connectors

Overview

The CCI singleband quasi-omni array is a two port antenna Small Cell antenna, with two wide low band ports covering 694-960 MHz. The CCI Quasi-Omni Small Cell antenna provides 2x2 Multiple-input-Multiple-output (MIMO) across the low band ports. The CCI Quasi-Omni Small Cell antenna is an ideal choice for Microcells, Small Cell and oDAS densification deployments in urban and suburban environments where antenna size and count are restricted. The CCI Quasi-Omni Small Cell antenna provides a fixed 6° EDT, across all low band frequencies.

CCI antennas are designed and produced to ISO 9001 certification standards for reliability and quality in our state-of-the-art manufacturing facilities.

Applications

- Microcells and Small Cells in Urban, Suburban and other visually sensitive environments
- Outdoor Distributed Antenna Systems (ODAS), neutral host in venues, campuses and other outdoor coverage applications



Antennas

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SPECIFICATIONS

Electrical

Ports	2 x Ports which cover the full range from 694-960 MHz			
Frequency Range	694-806 MHz	790-862 MHz	824-896 MHz	880-960 MHz
Gain ¹	5.1 dBi	5.0 dBi	5.3 dBi	5.8 dBi
Gain (Average) ²	4.6 dBi	4.6 dBi	4.8 dBi	5.4 dBi
Elevation Beamwidth (-3dB)	37.6°	34.7°	32.2°	30.7°
Electrical Downtilt	6°	6°	6°	6°
First upper sidelobes at peak gain	< -11 dB	< -12 dB	< -11 dB	< -8 dB
Cross-Polar Port-to-Port Isolation	> 20 dB	> 20 dB	> 20 dB	> 20 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2x20W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	200 watts	200 watts	200 watts	200 watts
Polarization	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground

¹Peak gain across sub-bands.

²Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V9.6.

Mechanical

Dimensions (LxD)	26.3 x 8.5 in (669 x 216 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	28 lbs (126 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	1.1 ft ² (0.1 m ²)
Weight *	11.5 lbs (5.2 kg)
Connector	2 x 7-16 DIN long neck female or 4.3-10 female
Mounting Pole	2 to 2.5 in (50 to 63 mm)

* Weight excludes mounting



Antennas

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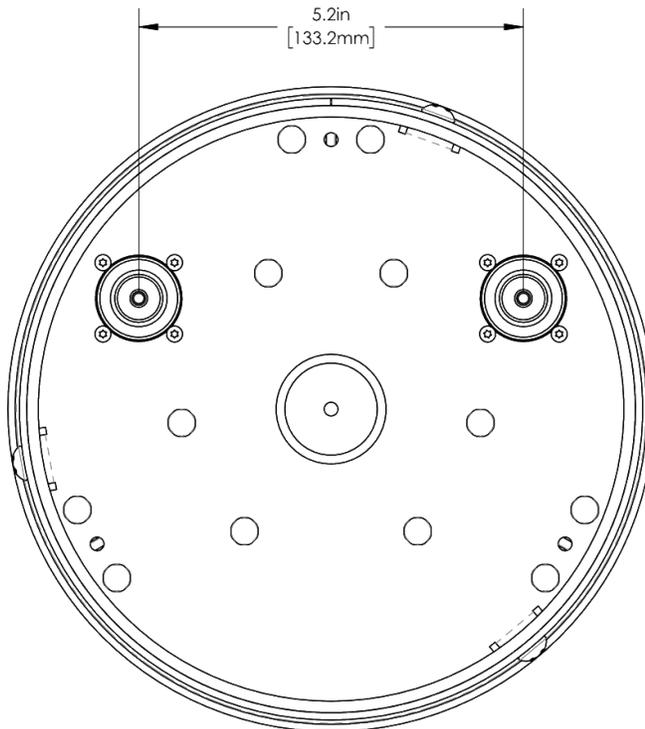
Bottom View

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Connector Spacing

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SPECIFICATIONS

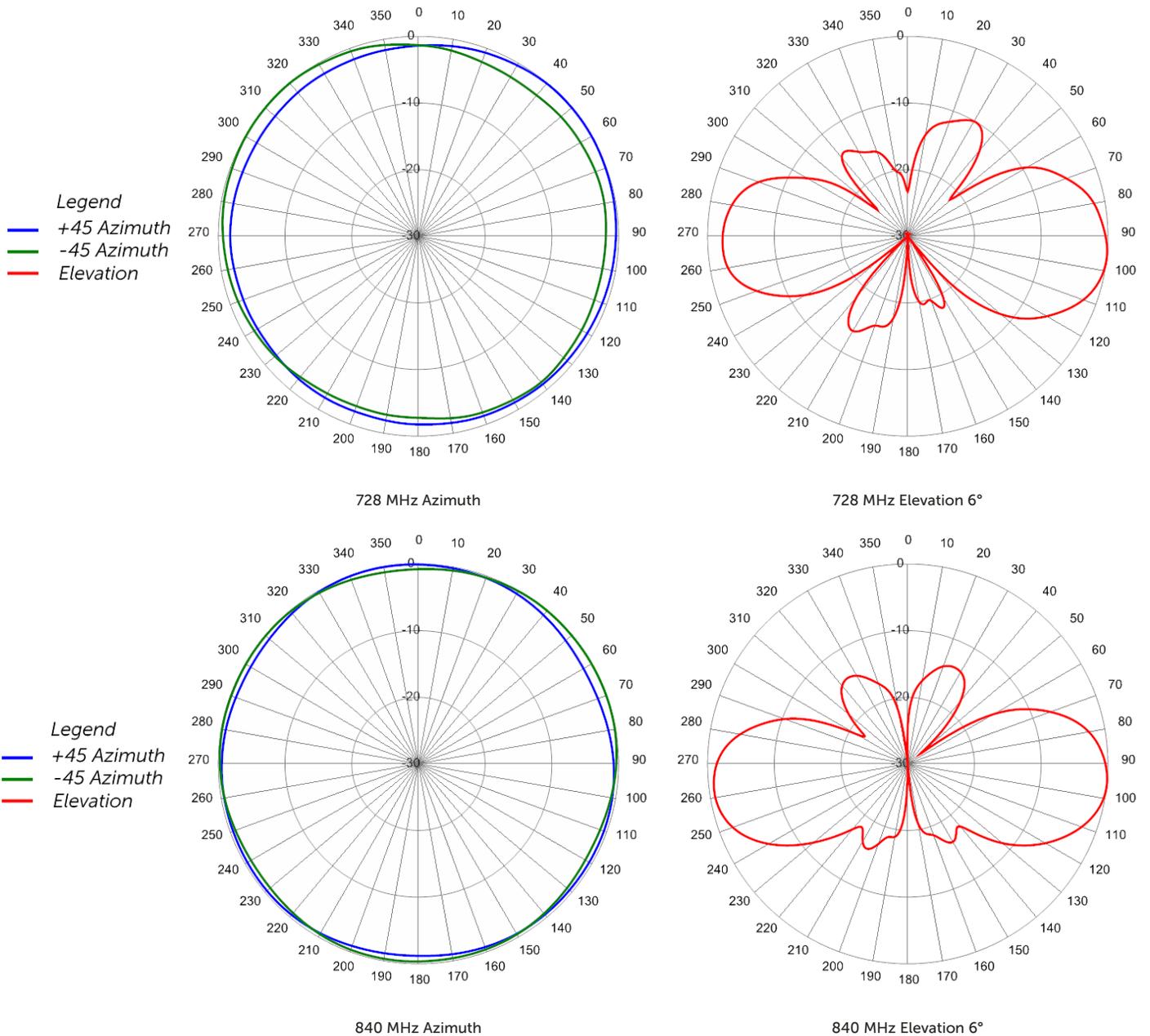
Low Wideband Quasi-Omni Antenna

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Mechanical

Typical Antenna Patterns

For detailed information on additional antenna patterns, contact customer support at support@cciproducts.com



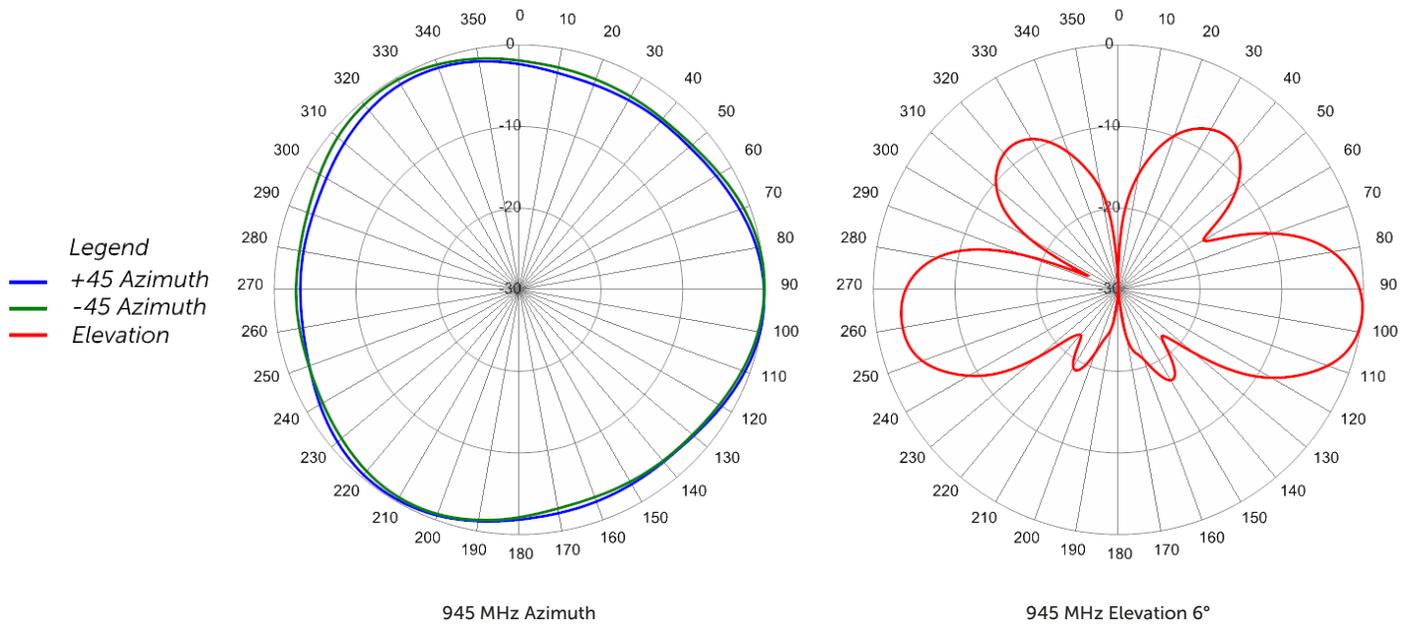


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SPECIFICATIONS

Low Wideband Quasi-Omni Antenna

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ORDERING

Low Wideband Quasi-Omni Antenna

SCA360F-K2A

Parts & Accessories

SCA360F-K2AA-K	Two foot (0.7 m) antenna Quasi Omni, Wideband, 7-16 DIN long neck female connectors and MBC-02 clamp kit (suitable for pole mounting)
SCA360F-K2AB-K	Two foot (0.7 m) antenna Quasi Omni, Wideband, 4.3-10 connectors and MBC-02 clamp kit (suitable for pole mounting)
MBC-02	Clamp kit, Pipe range 2 - 2.5 in. or lag bolt to wooden pole (lag bolts not supplied)



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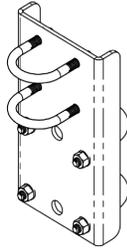
ACCESSORIES

Triple Mount Mast Bracket

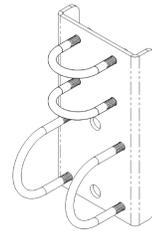
MBC-02

Mechanical

Dimensions (L x W x D)	7.9x4.3x1.1 in. (200x108x28 mm)
Weight	2.4 lbs (1.1 kg)
Fastener Size	5/16 UNC
Installation Torque (ft-lbs)	10



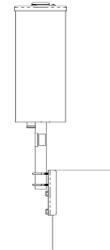
Bracket Vert. Mount View



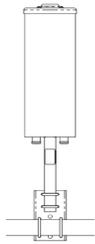
Bracket Hort. Mount View



Vertical Pole Mount



Wooden Pole Mount



Horizontal Pole Mount



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STANDARDS & CERTIFICATIONS

Low Wideband Quasi-Omni Antenna

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Standards & Compliance

Environmental IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5,
 IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14,
 IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29,
 IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64,
 GR-63-CORE 4.3.1, EN 606529, IP 24

Certifications

Federal Communication Commission (FCC) Part 15 Class B, ISO 9001



CCI

Communication Components Inc.

EXTENDING WIRELESS PERFORMANCE