



Antennas

DATA SHEET

Highband Quasi-Omni Antenna

SCA360F-W2A



- Two foot (0.5 m), singleband, two port quasi-omni antenna with 360° of coverage, covering 1710-1880 MHz frequencies
- Two wide band high band ports covering 1710-1880 MHz in a low weight and low profile cylindrical antenna
- 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
- Equipped with new 4.3-10 connector, which is 40% smaller than traditional 7/16 DIN connectors
- Ordering options for a GPS antenna integrated into the radome

Overview

The CCI singleband quasi-omni array is a two port Small Cell antenna, with two wide band high band ports covering 1710-1880 MHz. The CCI Quasi-Omni Small Cell antenna provides 2x2 Multiple-input-Multiple-output (MIMO). 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 2° EDT, across all high 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



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SPECIFICATIONS

Highband Quasi-Omni Antenna

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Electrical

Ports	2 x Ports which cover the full range from 1710-1880 MHz
Frequency Range	1710-1880 MHz
Gain ¹	8.2 dBi
Gain (Average) ²	7.9 dBi
Elevation Beamwidth (-3dB)	19.6°
Electrical Downtilt	2°
First upper sidelobes at peak gain	< -18 dB
Cross-Polar Port-to-Port Isolation	> 25 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1
Passive Intermodulation (2x20W)	≤ -153 dBc
Input Power Continuous Wave (CW)	100 watts
Polarization	Dual Linear 45°
Input Impedance	50 ohms
Lightning Protection	DC Ground

¹Peak gain across sub-bands.

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

Mechanical

Dimensions (LxD)	20.5 x 6.6 in (520 x 168 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	17 lbs (76 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	0.7 ft ² (0.1 m ²)
Weight *	4.8 lbs (2.1 kg)
Connector (RF)	2 x 4.3-10 female
Connector (GPS)	1 x Type "N" female
Mounting Pole (MBC-02)	2 to 2.5 in (50 to 63 mm)
Mounting Pole (MBC-05)	4 in and larger (100 mm and larger)
Mounting Pole (MBC-09)	2 to 5 in (50 to 125 mm)

* Weight excludes mounting



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Highband Quasi-Omni Antenna

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Mechanical

Bottom View

Without GPS option SCA360F-W2AA

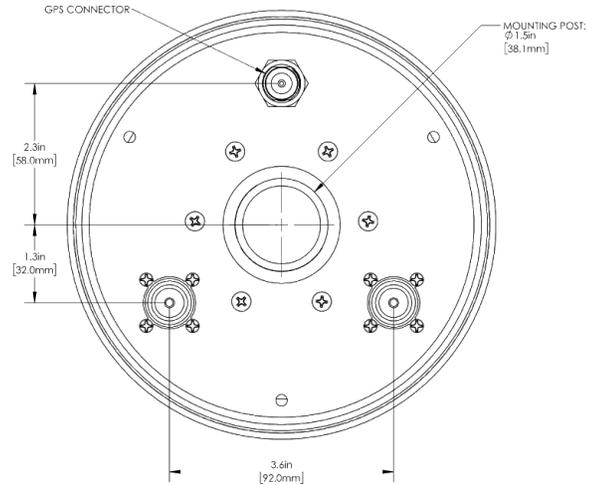
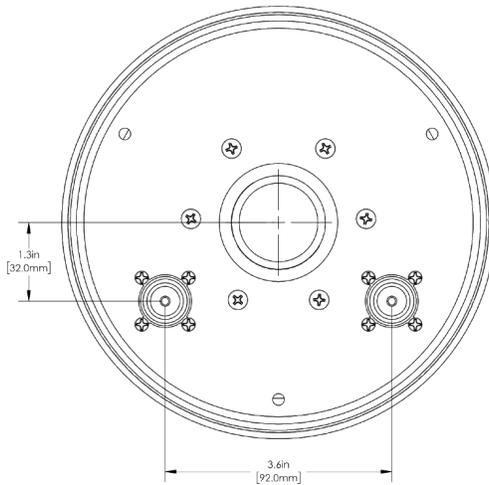
With GPS option SCA360F-W2AB



Connector Spacing

Without GPS option SCA360F-W2AA

With GPS option SCA360F-W2AB





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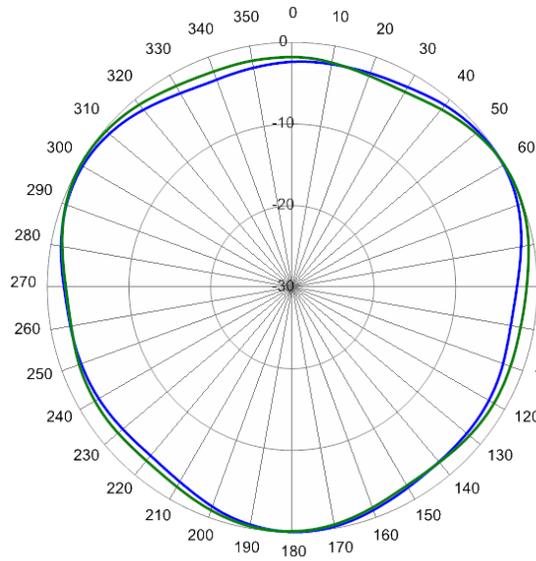
SPECIFICATIONS

Highband Quasi-Omni Antenna

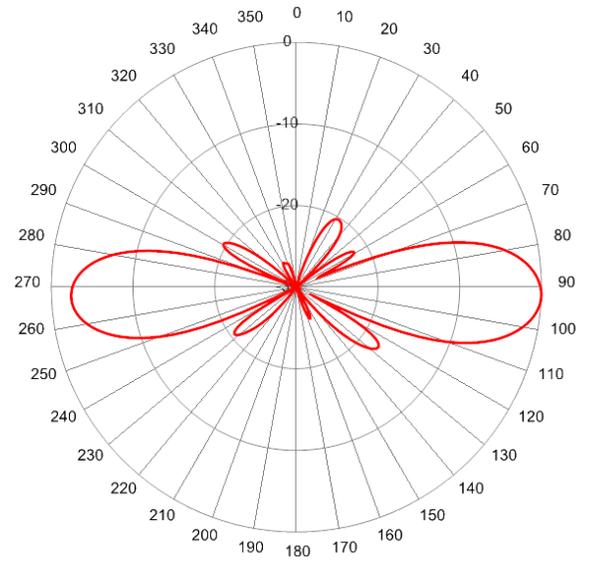
SCA360F-W2A

Typical Antenna Patterns

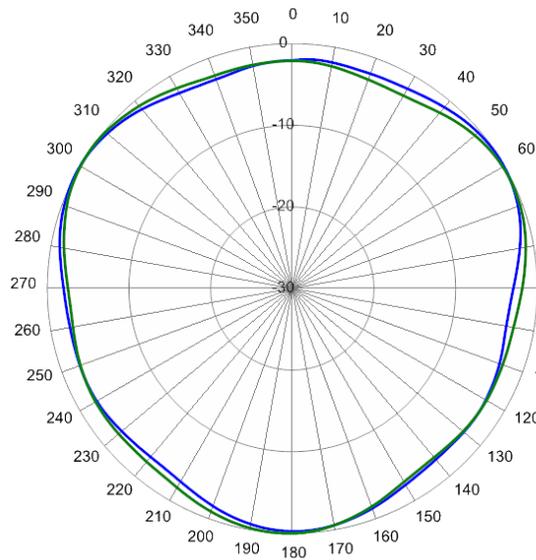
For detailed information on additional antenna patterns, contact customer support at support@cciproducts.com



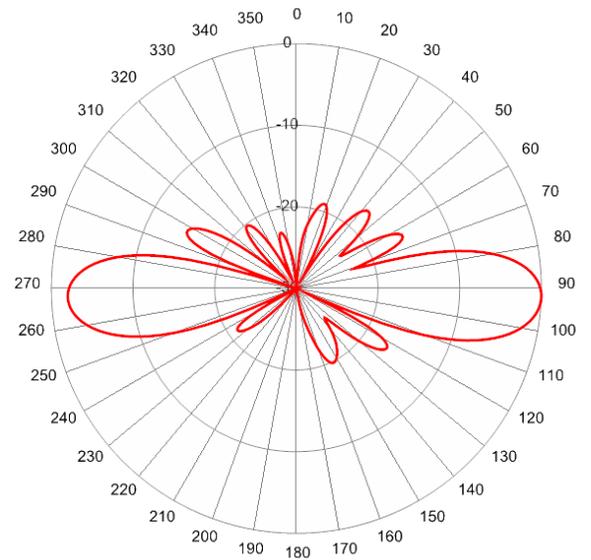
1710 MHz Azimuth



1710 MHz Elevation 2°



1850 MHz Azimuth



1850 MHz Elevation 2°



Antennas

ORDERING

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SCA360F-W2A

Parts & Accessories

SCA360F-W2AA Two foot (0.5 m) antenna Quasi Omni, Wideband, with 4.3-10 connectors

SCA360F-W2AB Two foot (0.5 m) antenna Quasi Omni, Wideband, with 4.3-10 connectors and an internal GPS

MBC-02 Clamp kit, Pipe range 1 - 2.5 in. (25 - 63 mm) or lag bolt to wooden pole or flat surface (lag bolts not supplied)

MBC-09 Clamp kit, Pipe range 2 - 5 in (50 - 125 mm)

MBC-05 Pole top mounting kit suitable for 4" (10 cm) and larger wood, steel or concrete utility or lighting poles.



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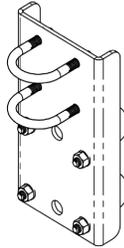
ACCESSORIES

Triple Mount Mast Bracket

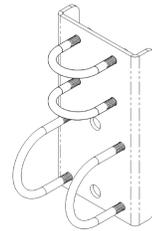
MBC-02

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



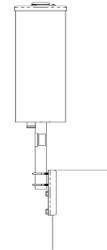
Bracket Vert. Mount View



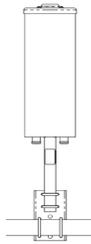
Bracket Hort. Mount View



Vertical Pole Mount



Wooden Pole Mount



Horizontal Pole Mount



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ACCESSORIES

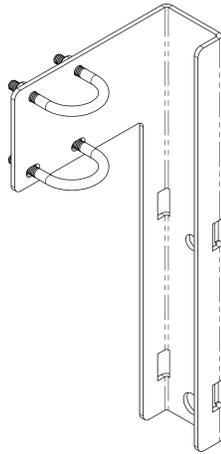
Mounting Bracket Kit

MBC-05

Mechanical

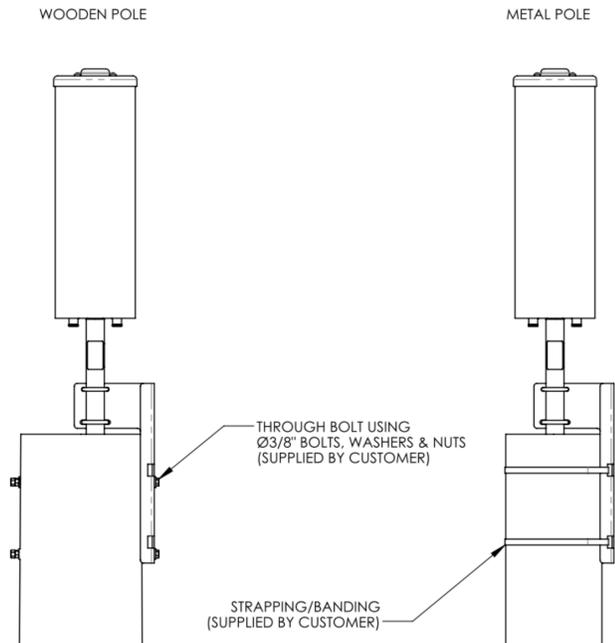
Weight 4.1 lbs (1.8 kg)

Mounting Pole Dimension 4 in (10 cm) and greater



MBC-05

Suggested Mounting Options



MBC-05 Typical mount



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STANDARDS & CERTIFICATIONS

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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