

DATA SHEET

Multi-Band Quasi-Omni Antenna

SCA360F-BU2D



- Two foot (0.6 m), multiband, four port quasi-omni antenna with 360° of coverage, covering 698-896 MHz and 1710-2360 MHz frequencies
- Two wide high band ports covering 1710-2360 MHz and two wide low band ports covering 698-896 MHz in a low profile cylindrical antenna
- Full Spectrum Compliance 698-896 MHz / 1710-2360 MHz
- Low profile cylindrical antenna makes this an ideal solution for Small Cell densification deployments in urban and suburban environments
- Antenna is equipped with center mount post, with a flanged mount. Which
 makes it ideal for mounting on utility, lighting and traffic poles
- Exceeds minimum PIM performance requirements
- Ordering options for 7/16 DIN connector or the new 4.3-10 connector, which is 40% smaller than traditional 7/16 DIN connectors

Overview

The CCI multiband quasi-omni array is a four port Small Cell antenna, with two wide high band ports covering 1710-2360 MHz and two wide low band ports covering 698-896 MHz. The CCI Quasi-Omni Small Cell antenna provides 2x2 Multiple-input-Multiple-output (MIMO) across the high band and 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 2° EDT, across both low and 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
- Outdoor Distributed Antenna Systems (ODAS), neutral host in venues, campuses and other outdoor coverage applications



SPECIFICATIONS

Multi-Band Quasi-Omni Antenna

SCA360F-BU2D

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Ports	2 × Ports which cover the full range from 698-896 MHz		$2\times Ports$ which cover the full range from 1710-2360 MHz			
Frequency Range	698-806 MHz	824-896 MHz	1850-1990 MHz	1710-1780/21	10-2180 MHz	2305-2360 MHz
Gain	4.6 dBi	5.4 dBi	8.8 dBi	8.4 dBi	9.5 dBi	10.4 dBi
Elevation Beamwidth (-3dB)	31°	32°	17°	18°	14°	13°
Electrical Downtilt	2°	2°	2°	2°	2°	2°
First upper sidelobes at peak gain	< -12 dB	< -11 dB	< -16 dB	< -16 dB	< -18 dB	< -18 dB
Cross-Polar Port-to-Port Isolation	> 20 dB	> 20 dB	> 25 dB	> 25 dB	> 23 dB	> 25 dB
Interband Port-to-Port Isolation	> 35 dB	> 35 dB	> 35 dB	> 35 dB	> 35 dB	> 35 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2×20W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	300 watts	300 watts	200 watts	200 watts	200 watts	200 watts
Polarization	Dual Linear 45°	Dual Linearl 45°	Dual Linear 45°	Dual Linear 45°	Dual Linear 45	° Dual Linear 45°
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground

Mechanical

^{*} Weight excludes mounting



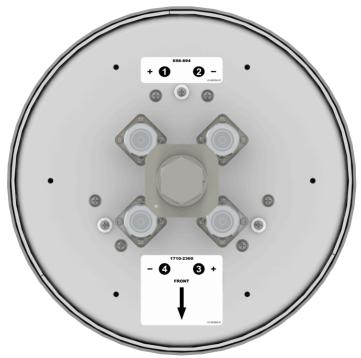
SPECIFICATIONS

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Mechanical

Bottom View





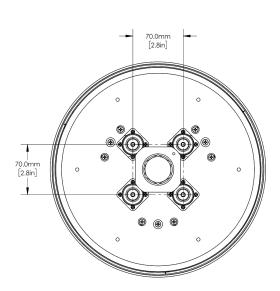
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Side View

Connector Spacing

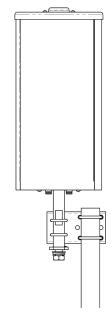


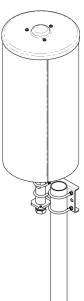
224n [202.1mm]

San [204.5mm]

Optional Installation Method using MBC-02

MBC-02 Optional Installation Method using MBC-02







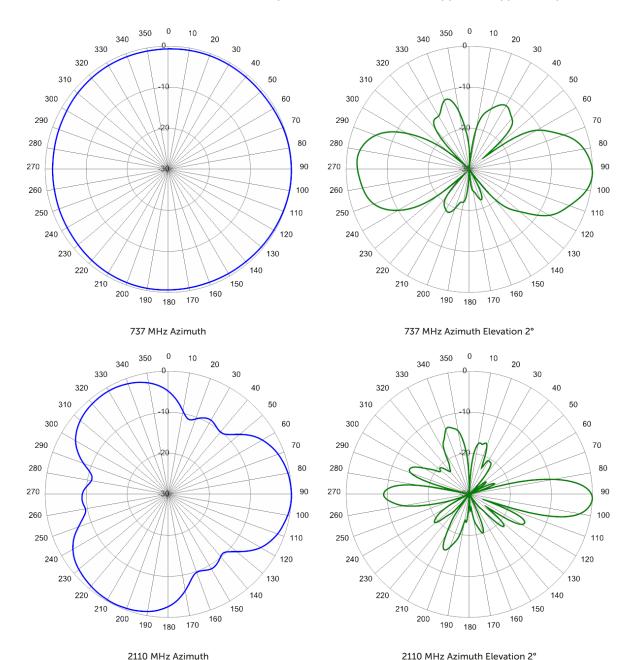
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Typical Antenna Patterns

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



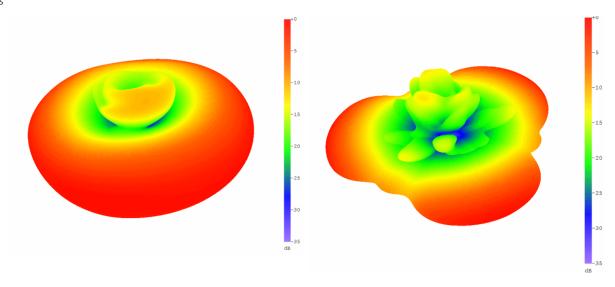


SPECIFICATIONS

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3D Antenna Patterns



737 MHz 2110 MHz



ORDERING

Multi-Band Quasi-Omni Antenna

SCA360F-BU2D

Parts & Accessories

SCA360F-BU2DA-K	Two foot (0.6 m) antenna Omni, Multiband, 7-16 DIN connectors with mounting bolt and lock washer		
SCA360F-BU2DB-K	Two foot (0.6 m) antenna Omni, Multiband, 4.3-10 connectors with mounting bolt and lock washer		
SCA360F-BU2DA-K1	Two foot (0.6 m) antenna Omni, Multiband, 7-16 DIN connectors with mounting bolt and lock washer plus MBC-02 mounting kit		
SCA360F-BU2DB-K1	Two foot (0.6 m) antenna Omni, Multiband, 4.3-10 connectors with mounting bolt and lock washer plus MBC-02 mounting kit		
MBC-02	Clamp kit, Pipe range 1 - 2.5 in. or lag bolt to wooden pole or flat surface (lag bolts not supplied)		



ACCESSORIES

Triple Mount Mast Bracket

MBC-02

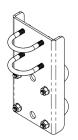
Mechanical

Dimensions (L x W x D) 7.9×4.3×1.1 in. (200×108×28 mm)

Weight 2.4 lbs (1.1 kg)

Fastener Size 5/16 UNC

Installation Torque (ft-lbs) 10



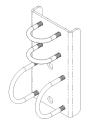
Bracket Vert. Mount View



Vertical Pole Mount



Horizontal Pole Mount



Bracket Hort. Mount View



Wooden Pole Mount

12/07/2016



tenna

STANDARDS & **CERTIFICATIONS** Multi-Band Quasi-Omni Antenna

SCA360F-BU2D

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











Revision 1.0