DATA SHEET

Wideband Quasi-Omni Antenna

SCA-OM-360F-E-H2

- Two foot (0.5 m), two port, quasi-omni antenna with uniform horizontal beamwidths covering the extended band from 1710-2690 MHz
- 360° of coverage area across all bands of operation in a single 20.3" x 6.5" compact radome
- One pair of cross-polarized ports for 2x2 MIMO covering the full operating frequency range
- Small size and center mount post make it ideal for mounting on utility, lighting and traffic poles
- Sharp elevation beamwidth aides in network planning
- Simple single housing blends easily into urban environments
- Simplified radio assignments due to all band design
- Only one antenna is needed due to multi-band operation
- Exceeds minimum PIM performance requirements

Overview

CCI's extended band quasi-omni Small Cell antenna provides full PCS, AWS, WCS, 2400 MHz and BRS band coverage. With two high band ports covering 1710-2690 MHz, this two foot (0.5 m) compact antenna provides 360° of coverage area in a single canister radome. The unique design of the CCI antenna elements provides for extremely stable azimuth patterns over the full operating frequency range insuring consistent coverage area for all bands of operation. The extended band Quasi-Omni antenna is an ideal choice for Microcells and Small Cell applications in urban and suburban environments where antenna size and count are restricted. The antenna includes a center mount post which is well suited for mounting to utility, lighting and traffic poles.

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

Wideband Quasi-Omni Antenna

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Electrical

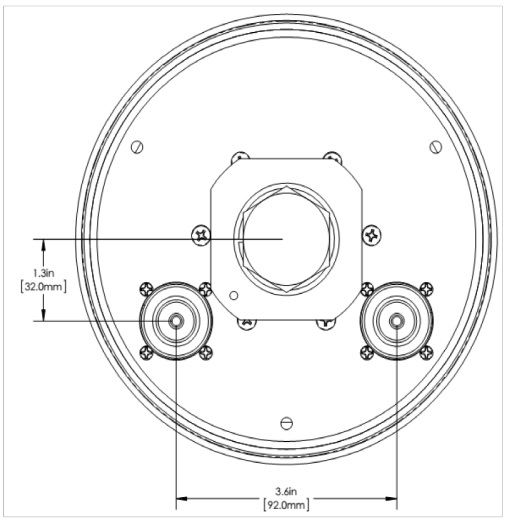
Ports	2 x Ports which cover the full range from 1710-2690 MHz				
Frequency Range	1850-1990 MHz	1710-1755/2110-2150 MHz		2305-2360 MHz	2500-2690 MHz
Gain	8.8 dBi	8.2 dBi	9.0 dBi	9.0 dBi	9.2 dBi
Elevation Beamwidth (-3dB)	17.7°	20.2°	16.2°	14.4°	13.6°
Electrical Downtilt	2°	2°	2°	2°	2°
First upper sidelobes at peak gain	< -16 dB	< -18 dB	< -15 dB	< -16 dB	< -16 dB
Cross-Polar Port-to-Port Isolation	> 26 dB	> 26 dB	> 26 dB	> 26 dB	> 26 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2x20W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	300 watts	300 watts	300 watts	300 watts	300 watts
Polarization	Dual Linear 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
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground

Mechanical

Dimensions (LxD)	20.5 x 6.6 in (520 x 168 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	30 lbs (131 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	1.2 ft^2 (0.1 m^2)
Weight *	5.5 lbs (2.5 kg)
Connector (RF)	2 x 7-16 DIN female
Mounting Hole	26mm

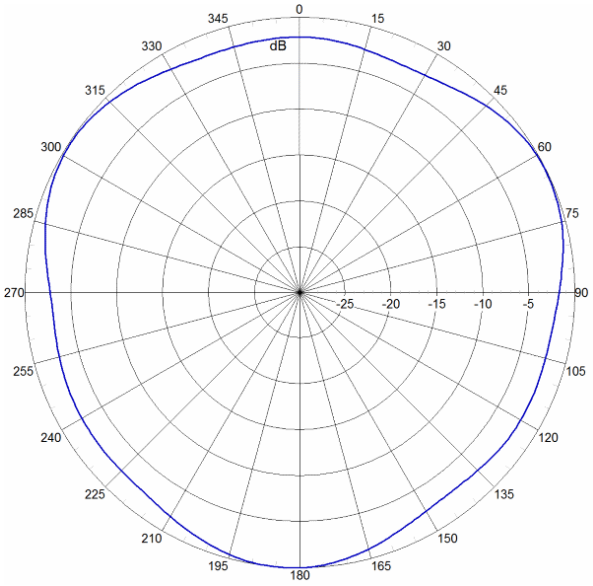
** Weight excludes mounting*

Bottom View

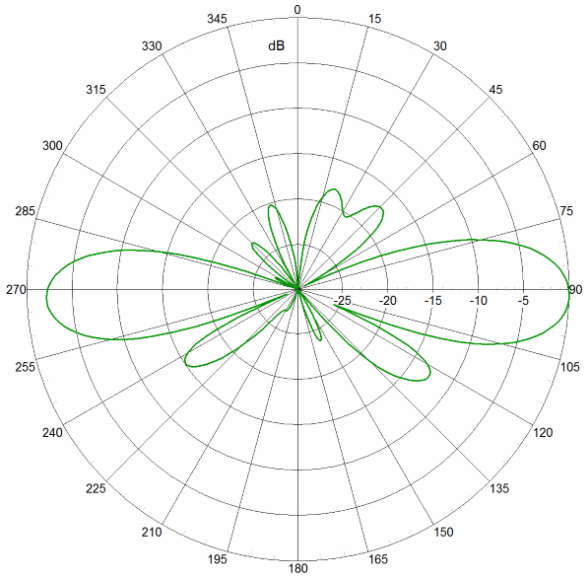


Typical Antenna Patterns

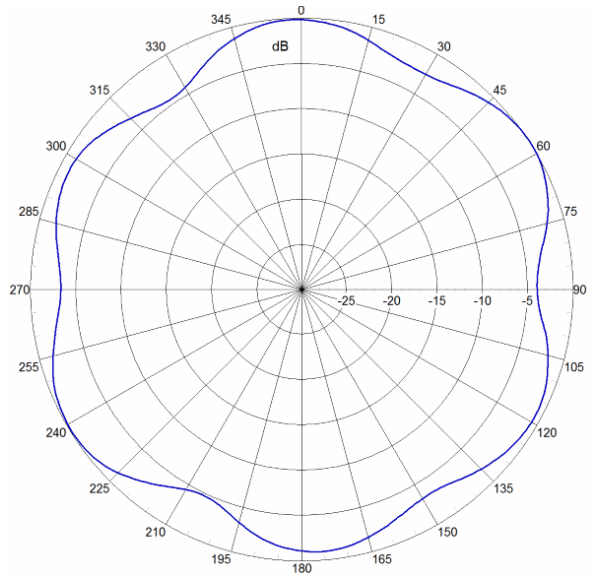
For detailed information on additional antenna patterns, contact customer support at support@cciproducts.com



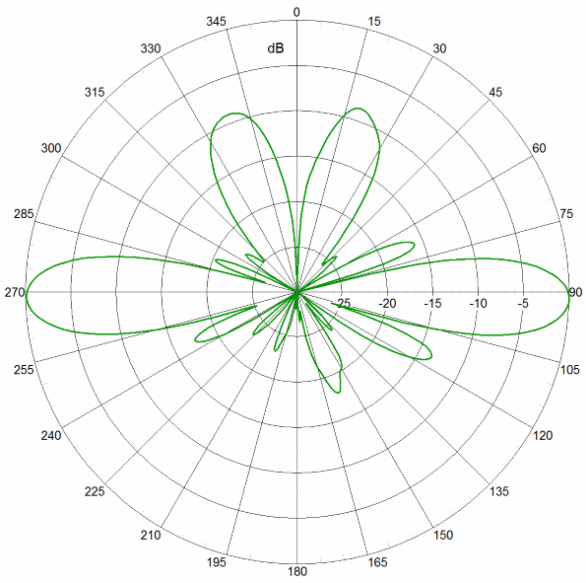
1755 MHz Azimuth



1755 MHz Elevation 2°

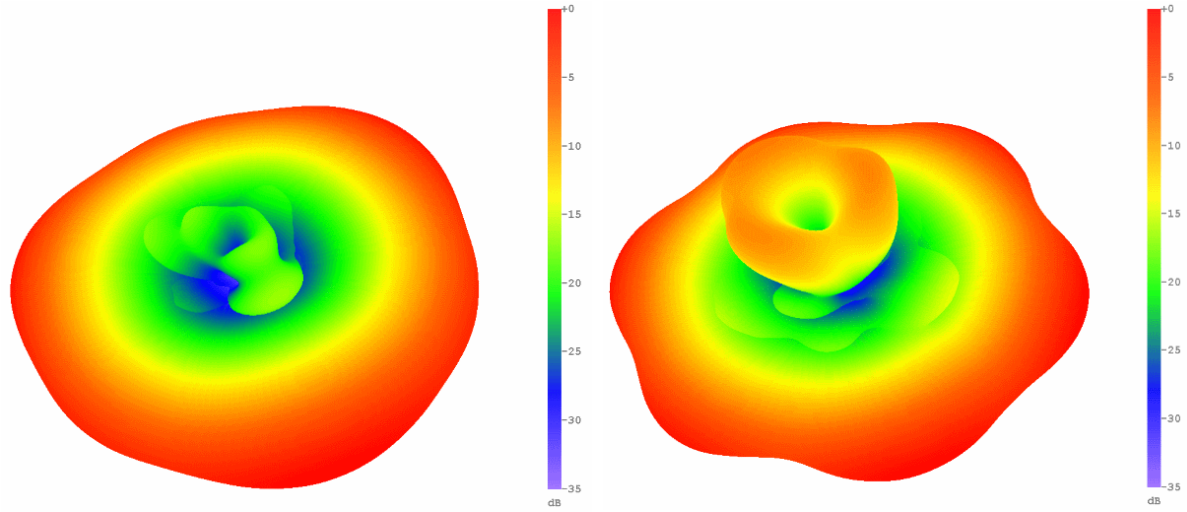


2360 MHz Azimuth



2360 MHz Elevation 2°

3D Antenna Patterns



1755 MHz

2360 MHz

STANDARDS & CERTIFICATIONS

Wideband Quasi-Omni Antenna

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Parts & Accessories

SCA-OM-360F-E-H2	Two foot (0.5 m) Wideband Quasi Omni antenna with mounting bolt and lock washer

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, CE, CSA US, ISO 9001