

DATA SHEET

Antennas

Tri-Band Omni Antenna

SCA360F-EHJ2H

	 24.0" (0.6 m) tall x 14.5" (0.36 m) wide, Tri-band, 16 port quasi-omni canister antenna with 360° of coverage, providing Full Spectrum Compliance covering 1695-2690 MHz, 3400-3800 MHz and 5150-5925 MHz frequencies Eight wide band ports covering 1695-2690 MHz, four wide band ports
	covering 3400-3800 MHz and four wide band ports covering 5150-5925 MHz all within in a low weight and low-profile canister antenna
	 Antenna meets U-NII pattern and gain requirements set forth by FCC and CRTC
	 This canister antenna is designed for multiple operators/platforms, with each pair of ports residing on separate and independent antenna arrays, minimizing potential interference between multiple operators. Pairs of the same frequency band ports can be combined for 4x4 MIMO where applicable
	The antenna is equipped with standardized 6-Bolt "Starburst" attachment
	Exceeds minimum PIM performance requirements
	 Equipped with 4.3-10 connectors, which are 40% smaller than 7/16 DIN connectors
• •	 Can be ordered with Brown or Black radomes in addition to default grey color
	 This canister antenna is also equipped with various EDT configurations, to allow maximum coverage/performance flexibility. Each set of four ports in 1695-2690 MHz, can be configured with a different EDT setting. Refer to the ordering option section for further details
	Equipped with an internal GPS antenna with Type N connector
Overview	The CCI Tri-band Quasi-Omni Small Cell antenna provides two independent sets of 4x4 Multiple-Input-Multiple-Output (MIMO) functionality across the 1695-2690 MHz ports, one set of 4x4 Multiple-Input-Multiple-Output (MIMO) functionality across the 3400-3800 MHz ports and provides two independent sets of 2x2 Multiple-Input-Multiple-Output (MIMO) functionality across the U-NII 5150-5925 MHz ports.
	CCI antennas are designed and produced to ISO 9001 certification standards for reliability and quality in our state-of-the-art manufacturing facilities.
Application	 With a 24" height and 14.5" diameter, this low-profile canister antenna is an ideal solution for Small Cell Densification deployments in difficult jurisdictional urban, suburban and rural and other visually sensitive environments

• Outdoor Distributed Antenna Systems (ODAS), neutral host in venues, campuses and other outdoor coverage applications

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SPECIFICATIONS

Flectrical

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Ports		8 × Hi	gh Band Ports for 1695-269	90 MHz	
Frequency Range	1695-1880 MHz	1850-1990 MHz	1920-2180 MHz	2300-2400 MHz	2496-2690 MHz
Gain Peak ¹ (6° EDT)	7.6 dBi	7.7 dBi	8.9 dBi	9.1 dBi	9.2 dBi
Gain BASTA ² (6° EDT)	7.1±0.5 dBi	7.2 <u>+</u> 0.5 dBi	8.0±0.9 dBi	8.6 <u>+</u> 0.6 dBi	8.8±0.4 dBi
Elevation Beamwidth (-3dB) (6° EDT)	25.4°	22.5°	21.5°	19.1°	16.6°
Electrical Downtilt	2° or 4° or 6°	2° or 4° or 6°	2° or 4° or 6°	2° or 4° or 6°	2° or 4° or 6°
First Upper Sidelobes (at Peak Gain) (6° EDT)	< -18 dB	< -17 dB	< -19 dB	< -14 dB	< -17 dB
Cross-Polar Port-to-Port Isolation (all tilts)	> 25 dB	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2×20W)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Input Power Continuous Wave (CW)	100 watts	100 watts	100 watts	100 watts	100 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 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
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¹Peak gain across sub-bands.

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

Ports	$4 \times$ High Band Ports for 3400-3800 MHz	4 × High Band Ports for 5150-5925 MHz
Frequency Range	3400-3800 MHz	5150-5925 MHz
Gain Peak ¹	6.5 dBi	5.9 dBi
Gain BASTA ²	5.8 <u>+</u> 0.7 dBi	5.2 <u>+</u> 0.7 dBi
Elevation Beamwidth (-3dB)	27.0°	24.0°
Electrical Downtilt	4°	5°
First Upper Sidelobes (at Peak Gain)	< -19 dB	< -20 dB
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1
Input Power Continuous Wave (CW)	50 watts	10 watts
Polarization	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground

¹Peak gain across sub-bands.

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

Mechanical				
Dimensions (L × D)	24.0×14.5 in (610×368 mm)			
Survival Wind Speed	> 150 mph (> 241 kph)			
Front Wind Load	43 lbs (193 N) @ 100 mph (161 kph)			
Equivalent Flat Plate Area	1.7 ft ² (0.2 m ²)			
Weight	25.8 lbs (11.7 kg)			
Connector (RF)	16 × 4.3-10 female			
Connector (GPS)	1 x Type "N"			

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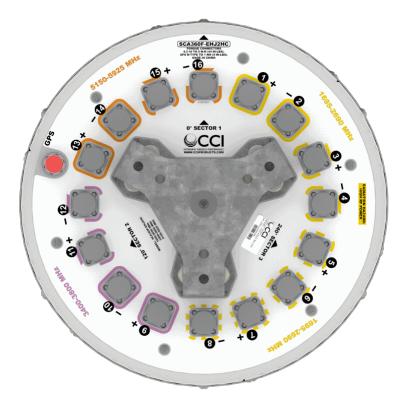
SPECIFICATIONS

Tri-Band Omni Antenna

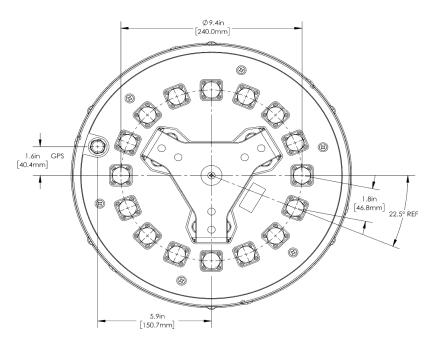
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Mechanical

Bottom View



Connector Spacing



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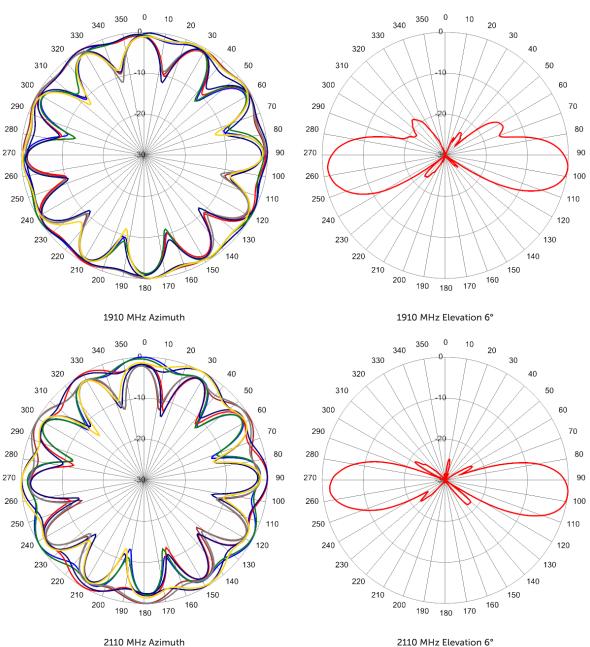
Tri-Band Omni Antenna

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SPECIFICATIONS

Typical Antenna Patterns

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



2110 MHz Elevation 6°

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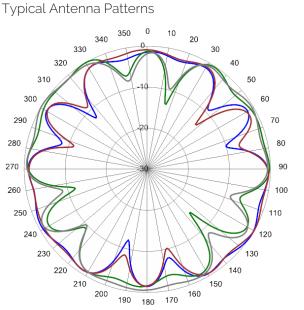


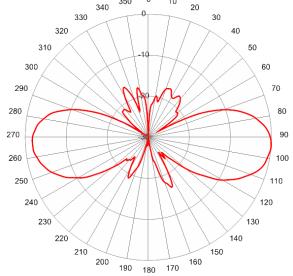
SPECIFICATIONS

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0

10

350

3500 MHz Azimuth

3500 MHz Elevation 4° 0

10

20

120

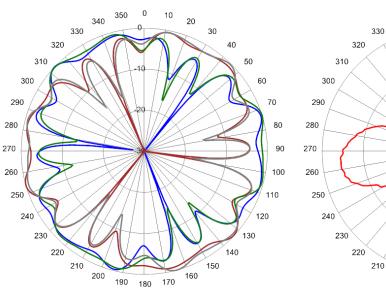
5

130

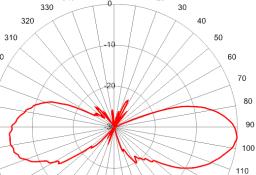
140

350

340



5150 MHz Azimuth



150 200 160 190 180 170 5150 MHz Elevation 5°

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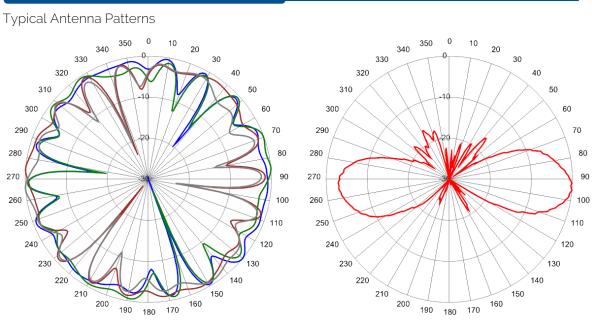


SPECIFICATIONS

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5850 MHz Azimuth

5850 MHz Elevation 5°

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Antennas

Tri-Band Omni Antenna

SCA360F-EHJ2H

ORDERING

	Description	Antenna Colo
SCA360F-EHJ2HA	Two foot (0.6 m) Tri-Band Quasi-Omni antenna with 2° EDT across all 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 5° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-EHJ2HB	Two foot (0.6 m) Tri-Band Quasi-Omni antenna with 4° EDT across all 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 5° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-EHJ2HC	Two foot (0.6 m) Tri-Band Quasi-Omni antenna with 6° EDT across all 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 5° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-EHJ2HD	Two foot (0.6 m) Tri-Band Quasi-Omni antenna with 2° EDT on 4 ports and 4° EDT on 4 ports of the 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 5° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-EHJ2HE	Two foot (0.6 m) Tri-Band Quasi-Omni antenna with 2° EDT on 4 ports and 6° EDT on 4 ports of the 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 5° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-EHJ2HF	Two foot (0.6 m) Tri-Band Quasi-Omni antenna with 4° EDT on 4 ports and 6° EDT on 4 ports of the 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 5° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps and standardized 6 bolt "Starburst" pattern	Standard Grey
Color Options	For Brown (Pantone 476C) add "2" to end of model name (ie SCA360F-EHJ2HA2)	Brown
	For Black (RAL 9011) add "3" to end of model name (ie SCA360F-EHJ2HA3)	Black

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STANDARDS & CERTIFICATIONS

Antennas

Tri-Band Omni Antenna

SCA360F-EHJ2H

Standards & Compliance

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 60529, IP 24

Certifications

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



