

Quad-Band Omni Antenna

SCA360F-KEHJ2G

DATA SHEET	Qua	id-Band Omni Antenna	SCA360F-KEHJ2G
DATA SHEET			
		 24.6" (0.6 m) tall x 14.5" (0.36 m) wide, Qua canister antenna with 360° of coverage, pro covering 698-960 MHz, 1695-2690 MHz, 3 MHz frequencies 	oviding Full Spectrum Compliance
		 Four wide band ports covering 698-960 M covering 1695-2690 MHz, four wide band and four wide band ports covering 5150-59 and low-profile canister antenna 	ports covering 3400-3800 MHz
	•	 Antenna meets U-NII pattern and gain requ CRTC 	irements set forth by FCC and
		 This canister antenna is designed for multip pair of ports residing on separate and indep minimizing potential interference between same frequency band ports can be combin applicable 	pendent antenna arrays, multiple operators. Pairs of the
	5 V	• The antenna is equipped with standardized	6-Bolt "Starburst" attachment
		• Exceeds minimum PIM performance requir	ements
		 Equipped with 4.3-10 connectors, which an connectors 	re 40% smaller than 7/16 DIN
		Can be ordered with Brown or Black radom color	nes in addition to default grey
		• This canister antenna is also equipped with allow maximum coverage/performance fle 1695-2690 MHz, can be configured with a ordering option section for further details	xibility. Each set of four ports in
		Equipped with an internal GPS antenna with	h Type N connector
	Overview	The CCI Quad-Band Quasi-Omni Small Cell independent set of 4x4 MIMO Multiple-Inpu functionality across the 698-960 MHz ports Multiple-Input-Multiple-Output (MIMO) fun MHz ports, one set of 4x4 Multiple-Input-M functionality across the 3400-3800 MHz po independent sets of 2x2 Multiple-Input-Mul across the U-NII 5150-5925 MHz ports.	it-Multiple-Output (MIMO) , three independent sets of 4x4 ctionality across the 1695-2690 ultiple-Output (MIMO) orts and provides two
		CCI antennas are designed and produced to for reliability and quality in our state-of-the-	
	Applications		
		 With a 24" height and 14.5" diameter, this ideal solution for Small Cell Densification jurisdictional urban, suburban and rural ar environments 	deployments in difficult
		Outdoor Distributed Antenna Systems (O	DAS), neutral host in venues,

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

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SPECIFICATIONS

Electrical				
Ports		4 × Low Band Port	ts for 698-960 MHz	
Frequency Range	698-806 MHz	790-862 MHz	824-896 MHz	880-960 MHz
Gain Peak	3.1 dBi	3.3 dBi	3.3 dBi	3.6 dBi
Gain BASTA ²	2.3±0.6 dBi	2.7 <u>+</u> 0.6 dBi	2.7 <u>+</u> 0.6 dBi	2.7 <u>+</u> 0.6 dBi
Elevation Beamwidth (-3dB)	65°	67°	69°	66°
Electrical Downtilt	0°	0°	0°	0°
First Upper Sidelobes (at Peak Gain)	NA	NA	NA	NA
Cross-Polar Port-to-Port Isolation (all tilts)	> 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 (2×20W)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Input Power Continuous Wave (CW)	100 watts	100 watts	100 watts	100 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 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.

Ports	8 × High Band Ports for 1695-2690 MHz				
Frequency Range	1695-1880 MHz	1850-1990 MHz	1920-2180 MHz	2300-2400 MHz	2496-2690 MHz
Gain Peak ^² (6° EDT)	7.0 dBi	7.2 dBi	8.3 dBi	8.6 dBi	8.0 dBi
Gain BASTA ¹ (6° EDT)	6.5 <u>+</u> 0.3 dBi	6.7 <u>+</u> 0.5 dBi	7.5 <u>+</u> 1.1 dBi	8.4 <u>+</u> 0.2 dBi	7.4 <u>+</u> 0.6 dBi
Elevation Beamwidth (-3dB) (6° EDT)	26.7°	24.4°	22.7°	20.7°	19.2°
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)	< -19 dB	< -19 dB	< -19 dB	< -17 dB	< -18 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

¹Peak gain across sub-bands.

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

Ports	4 × High Band Ports for 3400-3800 MHz	$4 \times$ High Band Ports for 5150-5925 MHz
Frequency Range	3400-3800 MHz	5150-5925 MHz
Gain Peak	7.7 dBi	5.8 dBi
Gain BASTA ²	7.1 <u>+</u> 0.5 dBi	4.5±0.7 dBi
Elevation Beamwidth (-3dB)	25.1°	26.9°
Electrical Downtilt	4°	6°
First Upper Sidelobes (at Peak Gain)	< -18 dB	< -18 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.

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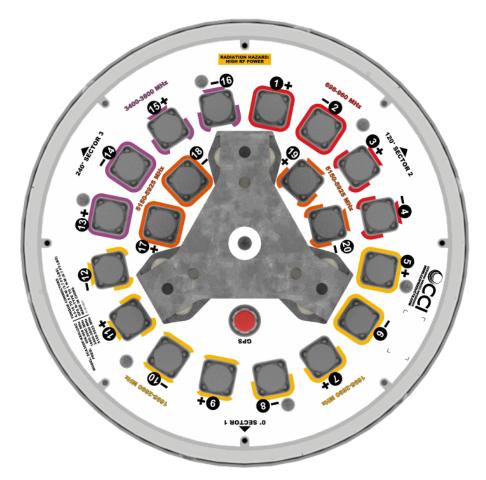
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SCA360F-KEHJ2G

SPECIFICATIONS

Mechanical				
24.5×14.5 in (622×368 mm)				
> 150 mph (> 241 kph)				
44 lbs (197 N) @ 100 mph (161 kph)				
1.7 ft ² (0.2 m ²)				
37.5 lbs (17.0 kg)				
20 × 4.3-10 female				
1 x Type "N"				

Bottom View



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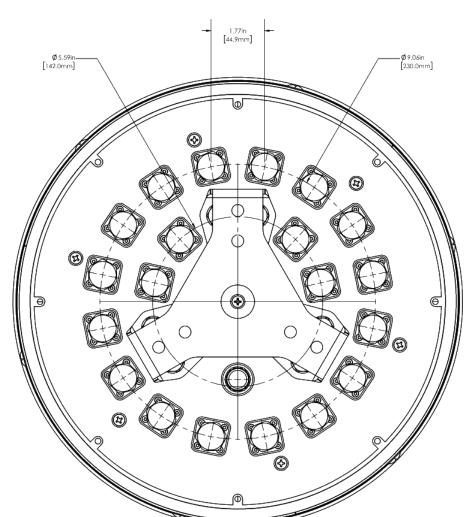
Antennas

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Mechanical

Connector Spacing



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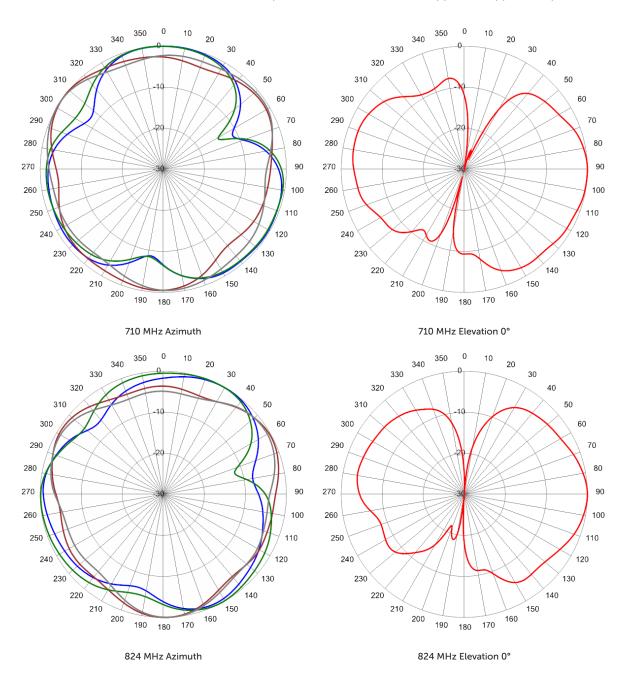
Antennas

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Typical Antenna Patterns

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

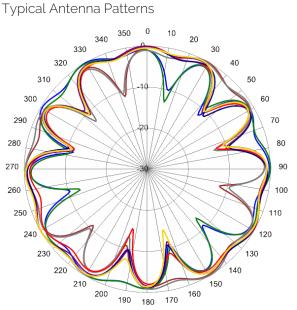


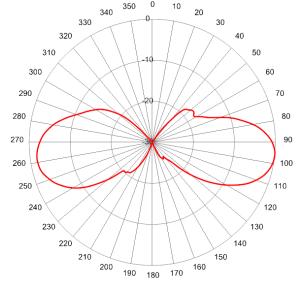


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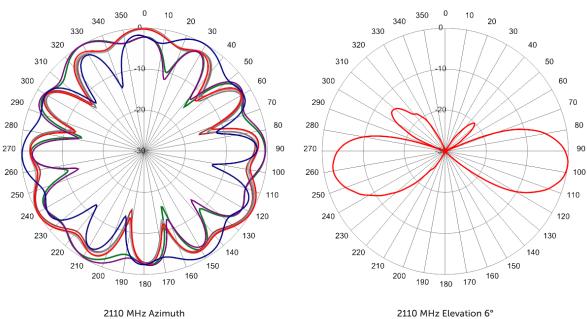


0

350

1910 MHz Azimuth

1910 MHz Elevation 6°



2110 MHz Elevation 6°

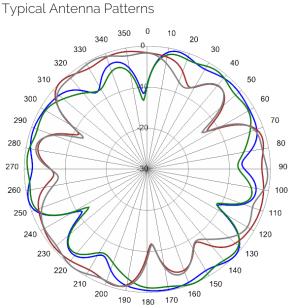
www.cciproducts.com E X T E N D I N G WIRELESS PERFORMANCE

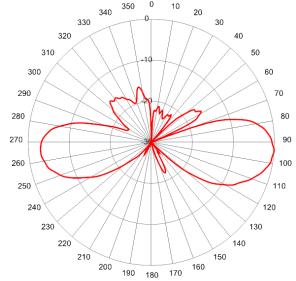


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0

350

3500 MHz Azimuth

3500 MHz Elevation 4° 0

10

20

30

60

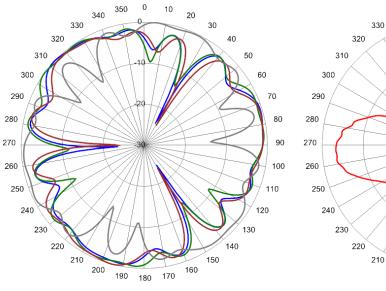
70

80

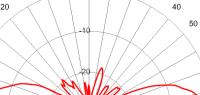
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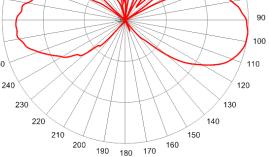
350

340



5150 MHz Azimuth





5150 MHz Elevation 6°

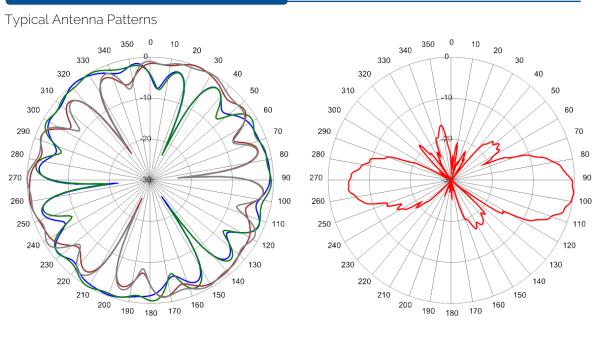
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Antennas

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5850 MHz Azimuth

5850 MHz Elevation 6°

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ORDERING

	Description	Antenna Colo
SCA360F-KEHJ2GA	Two foot (0.6 m) Quad-Band Quasi-Omni antenna with 0° EDT across all 698-960 MHz ports, 2° EDT across all 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector with protective endcap and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-KEHJ2GB	Two foot (0.6 m) Quad-Band Quasi-Omni antenna with 0° EDT across all 698-960 MHz ports, 4° EDT across all 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector with protective endcap and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-KEHJ2GC	Two foot (0.6 m) Quad-Band Quasi-Omni antenna with 0° EDT across all 698-960 MHz ports, 6° EDT across all 1695-2690 MHz ports, 4° across all 3400-3800 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector with protective endcapand standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-KEHJ2GD	Two foot (0.6 m) Quad-Band Quasi-Omni antenna with 0° EDT across all 698-960 MHz ports, 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 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector with protective endcap and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-KEHJ2GE	Two foot (0.6 m) Quad-Band Quasi-Omni antenna with 0° EDT across all 698-960 MHz ports, 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 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector with protective endcap and standardized 6 bolt "Starburst" pattern	Standard Grey
SCA360F-KEHJ2GF	Two foot (0.6 m) Quad-Band Quasi-Omni antenna with 0° EDT across all 698-960 MHz ports, 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 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector with protective endcap and standardized 6 bolt "Starburst" pattern	Standard Grey
Color Options	For Brown (Pantone 476C) add "2" to end of model name (ie SCA360F-KEHJ4GA2)	Brown
	For Black (RAL 9011) add "3" to end of model name (ie SCA360F-KEHJ4GA3)	Black

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STANDARDS & CERTIFICATIONS

Quad-Band Omni Antenna

SCA360F-KEHJ2G

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 60529, IP 24

Certifications

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



