

## Quad-Band Omni Antenna

#### SCA360F-KEHJ2G

DATA SHEET	Qua	id-Band Omni Antenna	SCA360F-KEHJ2G
DATA SHEET			
		<ul> <li>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</li> </ul>	oviding Full Spectrum Compliance
		<ul> <li>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</li> </ul>	ports covering 3400-3800 MHz
	•	<ul> <li>Antenna meets U-NII pattern and gain requ CRTC</li> </ul>	irements set forth by FCC and
		<ul> <li>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</li> </ul>	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
		<ul> <li>Equipped with 4.3-10 connectors, which an connectors</li> </ul>	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		
		<ul> <li>With a 24" height and 14.5" diameter, this ideal solution for Small Cell Densification jurisdictional urban, suburban and rural ar environments</li> </ul>	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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### SCA360F-KEHJ2G

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 <sup>2</sup>	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

#### <sup>1</sup>Peak gain across sub-bands.

<sup>2</sup>Electrical 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 <sup>²</sup> (6° EDT)	7.0 dBi	7.2 dBi	8.3 dBi	8.6 dBi	8.0 dBi
Gain BASTA <sup>1</sup> (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

<sup>1</sup>Peak gain across sub-bands.

<sup>2</sup>Electrical 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 <sup>2</sup>	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

<sup>1</sup>Peak gain across sub-bands.

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

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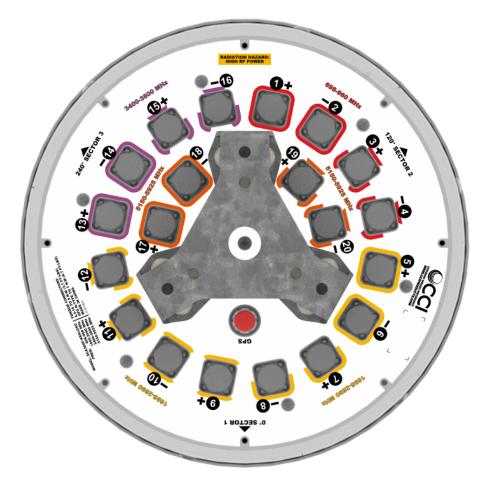
## Quad-Band Omni Antenna

### 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 <sup>2</sup> (0.2 m <sup>2</sup> )				
37.5 lbs (17.0 kg)				
20 × 4.3-10 female				
1 x Type "N"				

Bottom View



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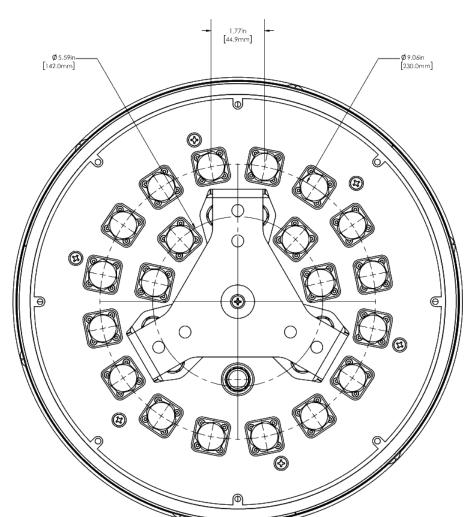
# Antennas

## Quad-Band Omni Antenna

### SCA360F-KEHJ2G

Mechanical

Connector Spacing



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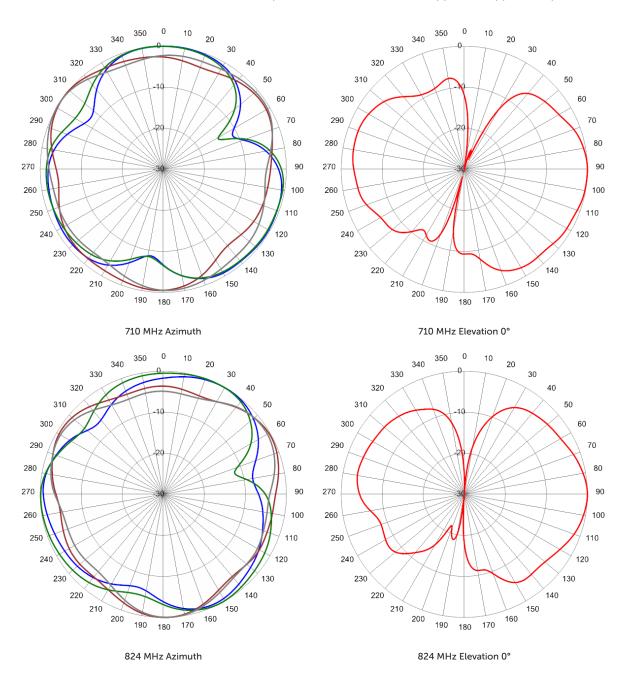
## Antennas

## Quad-Band Omni Antenna

### SCA360F-KEHJ2G

## Typical Antenna Patterns

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

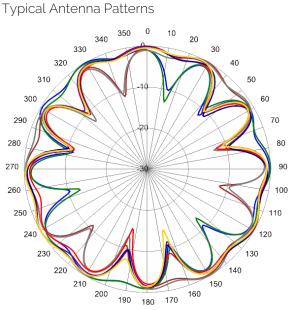


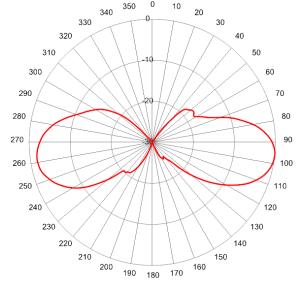


# tenna

Quad-Band Omni Antenna

#### SCA360F-KEHJ2G



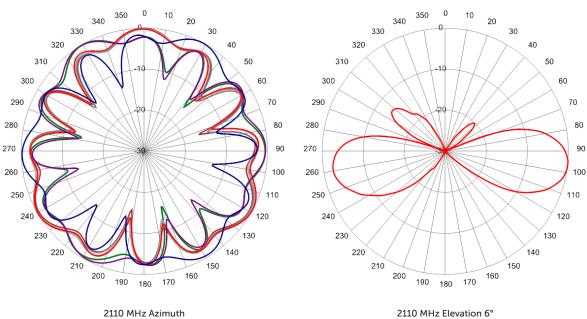


0

350

1910 MHz Azimuth

1910 MHz Elevation 6°



2110 MHz Elevation 6°

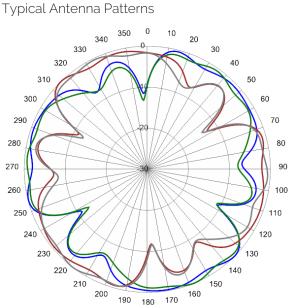
www.cciproducts.com E X T E N D I N G WIRELESS PERFORMANCE

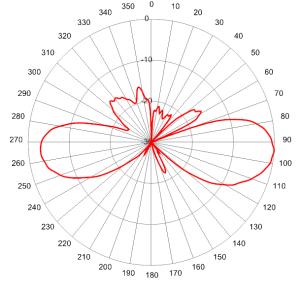


# tenna

Quad-Band Omni Antenna

#### SCA360F-KEHJ2G





0

350

3500 MHz Azimuth

3500 MHz Elevation 4° 0

10

20

30

60

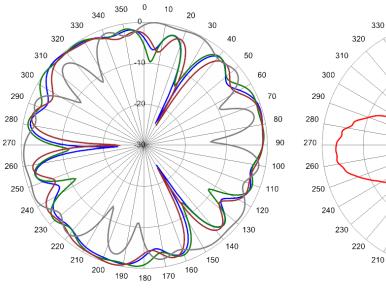
70

80

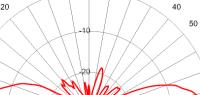
7

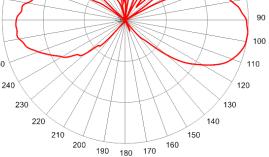
350

340



5150 MHz Azimuth





5150 MHz Elevation 6°

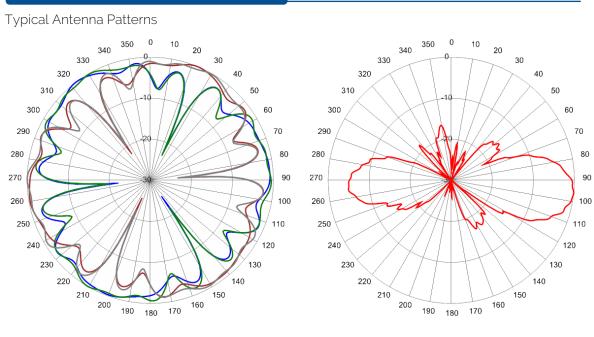
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# Antennas

## Quad-Band Omni Antenna

#### SCA360F-KEHJ2G



5850 MHz Azimuth

5850 MHz Elevation 6°

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## Quad-Band Omni Antenna

### SCA360F-KEHJ2G

#### 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



