

#### Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2

DATA SHEET					50A5001 - ILLI 10 - ILLI 1
DUITOILLI					
		•	caniste coverii	er antenna with 36	420 mm) wide, Quad-band, 24 port quasi-omni 0° of coverage, providing Full Spectrum Compliance 1695-2690 MHz, 3300-4200 MHz and 5150-5925
			1695-2 band p	2690 MHz, four wi	vering 698-960 MHz, twelve wide band ports covering de band ports covering 3300-4200 MHz and four wide 0-5925 MHz all within in a low weight and low-profile
	·	•	Antenr	na meets U-NII pat	ttern and gain requirements set forth by FCC and CRTC
		•	pair of potent	f ports residing on tial interference be	designed for multiple operators/platforms, with each separate and independent antenna arrays, minimizing stween multiple operators. Pairs of the same frequency ined for 4x4 MIMO where applicable
		•	The an	ntenna is equipped	with standardized 6-Bolt "Starburst" attachment
		•	Exceed	ds minimum PIM p	performance requirements
		•	Equipp conne		nnectors, which are 40% smaller than 7/16 DIN
			maxim MHz, c	num coverage/perf	also equipped with various EDT configurations, to allow formance flexibility. Each set of four ports in 1695-2690 with a different EDT setting. Refer to the ordering r details
		•	Can be	e ordered with Bro	wn or Black radomes in addition to default grey color
		•	Equipp	oed with an interna	al GPS antenna with Type N connector
	Overview				-
	Overview		indeper function Multiple MHz pc function indeper	ndent set of 4x4 M nality across the 6 e-Input-Multiple-C orts, one set of 4x4 nality across the 3	si-Omni Small Cell antenna provides one IIMO Multiple-Input-Multiple-Output (MIMO) 98-960 MHz ports, three independent sets of 4x4 Dutput (MIMO) functionality across the 1695-2690 I Multiple-Input-Multiple-Output (MIMO) 300-4200 MHz ports and provides two Multiple-Input-Multiple-Output (MIMO) functionality 25 MHz ports.
					ed and produced to ISO 9001 certification standards n our state-of-the-art manufacturing facilities.
					_
	Applications				
			for n	nulti-tenant Small	L6.5" diameter, this canister antenna is an ideal solution Cell Densification deployments in the Right of Way, in nd other visually sensitive environments

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

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#### SPECIFICATIONS

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Electrical					
Ports	4 x Low Band Ports for 698-960 MHz				
Frequency Range	698-806 MHz	790-862 MHz	824-896 MHz	880-960 MHz	
Gain Peak <sup>1</sup>	6.0 dBi	6.1 dBi	6.1 dBi	6.0 dBi	
Gain BASTA <sup>2</sup>	5.2 <u>+</u> 0.8 dBi	5.8 <u>+</u> 0.3 dBi	5.8 <u>+</u> 0.3 dBi	5.8 <u>+</u> 0.3 dBi	
Elevation Beamwidth (-3dB)	44°	39°	38°	35°	
Electrical Downtilt	4°	4°	4°	4°	
First Upper Sidelobes (at Peak Gain)	< -14 dB	< -10 dB	< -9 dB	< -9 dB	
Cross-Polar Port-to-Port Isolation (all tilts)	> 25 dB	> 25 dB	> 25 dB	> 25 dB	
Voltage Standing Wave Ratio(VSWR)	< 1.55:1	< 1.55:1	< 1.55:1	< 1.55:1	
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		12 × Hi	igh 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 <sup>1</sup> (2° EDT)	8.3 dBi	8.6 dBi	8.9 dBi	9.2 dBi	9.4 dBi
Gain BASTA <sup>2</sup> (2° EDT)	7.4 <u>+</u> 0.6 dBi	7.7 <u>+</u> 0.6 dBi	8.1 <u>+</u> 0.6 dBi	8.5 <u>+</u> 0.6 dBi	8.5±0.6 dBi
Elevation Beamwidth (-3dB) (2° EDT)	22.5°	21.6°	20.0°	17.8°	15.8°
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) (2° EDT)	< -19 dB	< -19 dB	< -20 dB	< -17 dB	< -16 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 3300-4200 MHz	$4 \times$ High Band Ports for 5150-5925 MHz
Frequency Range	3300-3800 MHz	3700-4200 MHz	5150-5925 MHz
Gain Peak <sup>1</sup>	5.8 dBi	7.3 dBi	5.4 dBi
Gain BASTA <sup>2</sup>	5.4 <u>+</u> 0.3 dBi	6.2 <u>+</u> 0.6 dBi	4.6±0.6 dBi
Elevation Beamwidth (-3dB)	28.0°	25.0°	26.4°
Electrical Downtilt	4°	4°	6°
First Upper Sidelobes (at Peak Gain)	< -13 dB	< -13 dB	< -19 dB
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB	> 25 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1
Input Power Continuous Wave (CW)	50 watts	50 watts	10 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms	50 ohms
Lightning Protection	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.

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## Antennas

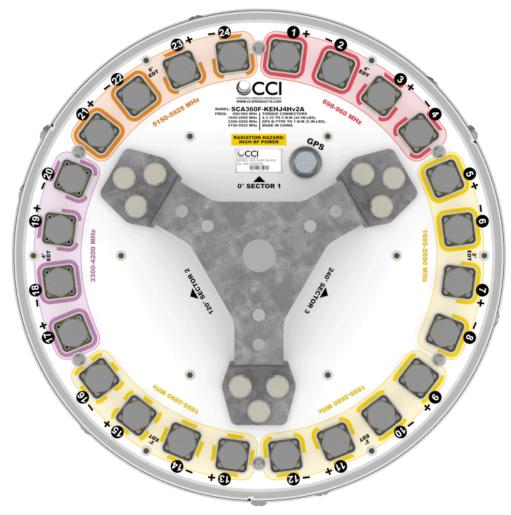
#### Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2

### SPECIFICATIONS

Dimensions (L × D)	48.0×16.5 in (1219×419 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	100 lbs (444 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	3.9 ft <sup>2</sup> (0.4 m <sup>2</sup> )
Weight	47.2 lbs (21.4 kg)
Connector	24 × 4.3-10 female

Bottom View



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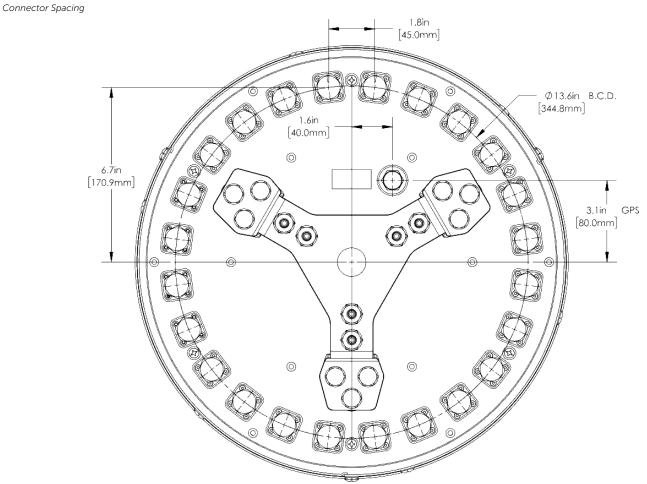


**SPECIFICATIONS** 

#### Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2

Mechanical



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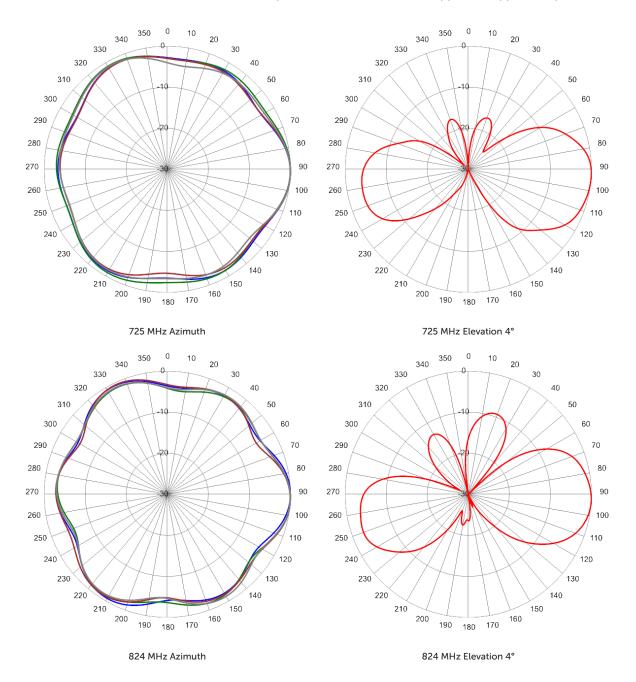
#### Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2

#### SPECIFICATIONS

#### Typical Antenna Patterns

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



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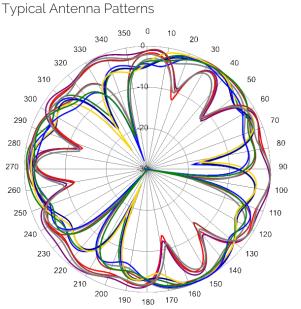


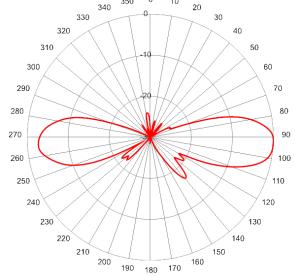
**SPECIFICATIONS** 

# tenna

Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2





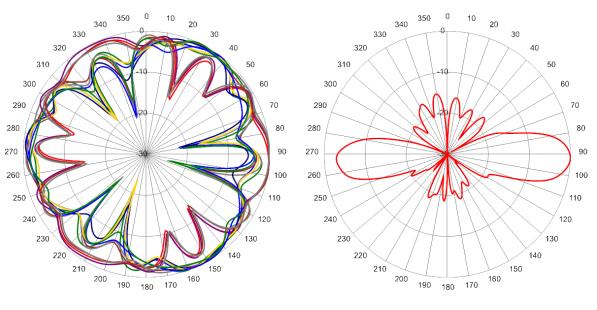
0

10

350

1920 MHz Azimuth

1920 MHz Elevation 2°



2355 MHz Azimuth

2355 MHz Elevation 2°

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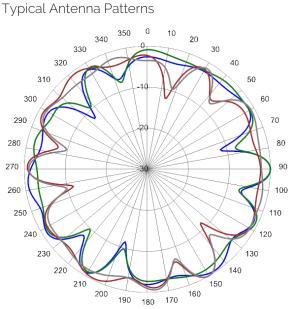


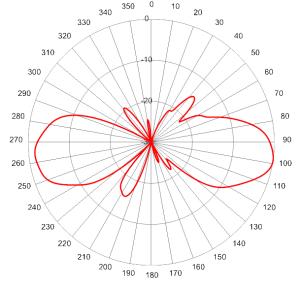
**SPECIFICATIONS** 

# tennas

Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2



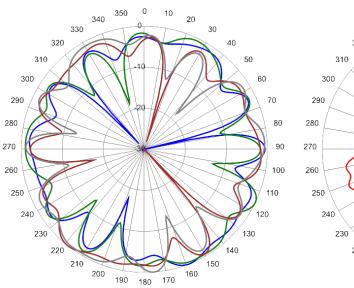


0

350

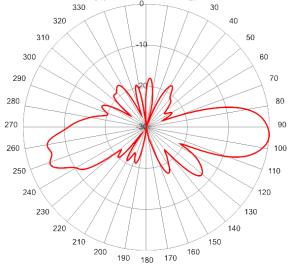
3500 MHz Azimuth

3500 MHz Elevation 4°



4100 MHz Azimuth

0 350 10 340 20



4100 MHz Elevation 4°

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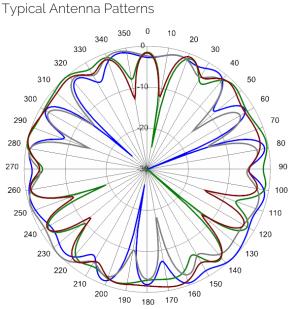


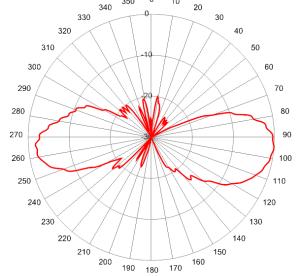
**SPECIFICATIONS** 

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Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2





0

10

350

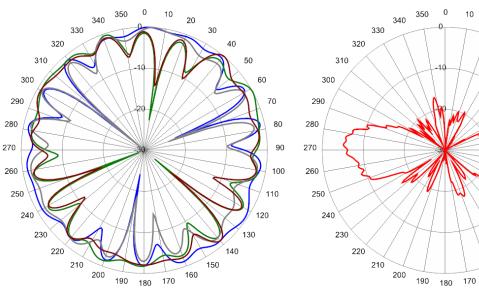
5150 MHz Azimuth

5150 MHz Elevation 6° 0

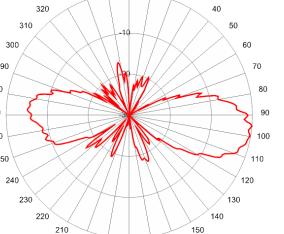
10

20

30



5800 MHz Azimuth



5800 MHz Elevation 6°

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8



#### Quad-Band Omni Antenna

#### SCA360F-KEHJ4Hv2

#### ORDERING

	Description	Antenna Colo
SCA360F-KEHJ4Hv2A	Four foot (1.2 m) Quad-Band Quasi-Omni antenna with 4° EDT across all 698-960 MHz ports, 2° EDT across all 1695-2690 MHz ports, 4° across all 3300-4200 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector, standardized 6 bolt "Starburst" pattern and AHH-02 antenna hoisting harness	Standard Grey
SCA360F-KEHJ4Hv2B	Four foot (1.2 m) Quad-Band Quasi-Omni antenna with 4° EDT across all 698-960 MHz ports, 4° EDT across all 1695-2690 MHz ports, 4° across all 3300-4200 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector, standardized 6 bolt "Starburst" pattern and AHH-02 antenna hoisting harness	Standard Grey
SCA360F-KEHJ4Hv2C	Four foot (1.2 m) Quad-Band Quasi-Omni antenna with 4° EDT across all 698-960 MHz ports, 6° EDT across all 1695-2690 MHz ports, 4° across all 3300-4200 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector, standardized 6 bolt "Starburst" pattern and AHH-02 antenna hoisting harness	Standard Grey
SCA360F-KEHJ4Hv2D	Four foot (1.2 m) Quad-Band Quasi-Omni antenna with 4° EDT across all 698-960 MHz ports, 2° EDT on 8 ports and 4° EDT on 4 ports of the 1695-2690 MHz ports, 4° across all 3300-4200 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector, standardized 6 bolt "Starburst" pattern and AHH-02 antenna hoisting harness	Standard Grey
SCA360F-KEHJ4Hv2E	Four foot (1.2 m) Quad-Band Quasi-Omni antenna with 4° EDT across all 698-960 MHz ports, 2° EDT on 8 ports and 6° EDT on 4 ports of the 1695-2690 MHz ports, 4° across all 3300-4200 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector, standardized 6 bolt "Starburst" pattern and AHH-02 antenna hoisting harness	Standard Grey
SCA360F-KEHJ4Hv2F	Four foot (1.2 m) Quad-Band Quasi-Omni antenna with 4° EDT across all 698-960 MHz ports, 4° EDT on 8 ports and 6° EDT on 4 ports of the 1695-2690 MHz ports, 4° across all 3300-4200 MHz ports and 6° across all 5150-5925 MHz ports, 4.3-10 connectors with protective endcaps, GPS with Type N connector, standardized 6 bolt "Starburst" pattern and AHH-02 antenna hoisting harness	Standard Grey
Color Options	For Brown (Pantone 476C) add "2" to end of model name (ie SCA360F-KEHJ4Hv2A2)	Brown
	For Black (RAL 9011) add "3" to end of model name (ie SCA360F-KEHJ4Hv2A3)	Black
AHH-02	Four foot (1.2 m) Antenna Hoisting Harness	NA

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ACCESSORIES

## Antennas

### Antenna Hoisting Harness

AHH-02

Individual Cable Part Number	AHH-02
Construction	400 kg Nylon Webbing
Color	Black
Max Antenna weight	100 lbs (45.3 kg)

Environmental Specifications

Individual Cable Part Number	AHH-02
Temperature Range	-45° to 70° C

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#### STANDARDS & CERTIFICATIONS

#### Quad-Band Omni Antenna

SCA360F-KEHJ4Hv2

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



