

Applications

- Microcells, Small Cells and C-RAN in Urban, Suburban and other visually sensitive environments
- Outdoor Distributed Antenna Systems (ODAS), neutral host in venues, campuses and other outdoor coverage applications



Multi-Band Omni Antenna

SCA360F-UHJ2A

SPECIFICATIONS

Electrical				
Ports	4 × High Band Ports for 1695-2360 MHz			
Frequency Range	1695-1880 MHz	1850-1990 MHz	1920-2180 MHz	2305-2360 MHz
Gain ¹ (2° EDT)	7.9 dBi	8.3 dBi	8.5 dBi	8.9 dBi
Gain ¹ (6° EDT)	7.9 dBi	8.2 dBi	8.6 dBi	8.7 dBi
Gain ¹ (10° EDT)	7.7 dBi	8.2 dBi	8.8 dBi	8.7 dBi
Gain ¹ (13° EDT)	7.8 dBi	8.3 dBi	8.5 dBi	8.1 dBi
Gain (Average) ² (2° EDT)	7.5 dBi	8.0 dBi	8.3 dBi	8.6 dBi
Gain (Average) ² (6° EDT)	7.5 dBi	8.0 dBi	8.3 dBi	8.5 dBi
Gain (Average) ² (10° EDT)	7.3 dBi	7.7 dBi	8.1 dBi	8.5 dBi
Gain (Average) ² (13° EDT)	7.1 dBi	7.7 dBi	8.1 dBi	7.8 dBi
Elevation Beamwidth (-3dB) (2° EDT)	24.0°	22.8°	21.8°	18.5°
Elevation Beamwidth (-3dB) (6° EDT)	23.4°	22.5°	21.6°	19.5°
Elevation Beamwidth (-3dB) (10° EDT)	24.3°	23.4°	22.4°	19.8°
Elevation Beamwidth (-3dB) (13° EDT)	25.6°	24.3°	22.7°	21.5°
Electrical Downtilt	2° or 6° or 10° or 13°	2° or 6° or 10° or 13°	2° or 6° or 10° or 13°	2° or 6° or 10° or 13°
First Upper Sidelobes (at Peak Gain) (2° EDT)	< -22 dB	< -18 dB	< -18 dB	< -20 dB
First Upper Sidelobes (at Peak Gain) (6° EDT)	< -18 dB	< -17 dB	< -17 dB	< -18 dB
First Upper Sidelobes (at Peak Gain) (10° EDT)	< -19 dB	< -15 dB	< -16 dB	< -18 dB
First Upper Sidelobes (at Peak Gain) (13° EDT)	< -19 dB	< -19 dB	< -16 dB	< -13 dB
Cross-Polar Port-to-Port Isolation (all tilts)	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Interband Port to Port Isolation (all tilts)	> 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
Passive Intermodulation (2×20W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	200 watts	200 watts	200 watts	200 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	$4 \times$ High Band Ports for 3550-3700 MHz	2 × High Band Ports for 5150-5925 MHz
Frequency Range	3550-3700 MHz	5150-5925 MHz
Gain ¹	7.0 dBi	4.4 dBi
Gain (Average) ²	6.9 dBi	4.0 dBi
Elevation Beamwidth (-3dB)	28.8°	27.2°
Electrical Downtilt	2°	4°
First Upper Sidelobes (at Peak Gain)	< -12 dB	< -17 dB
Cross-Polar Port-to-Port Isolation	> 25 dB	> 20 dB
Interband Port to Port Isolation	> 25 dB	> 25 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1
Input Power Continuous Wave (CW)	100 watts	100 watts
Polarization	Dual Pol 45°	Dual Pol 45°
Input Impedance	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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Multi-Band Omni Antenna

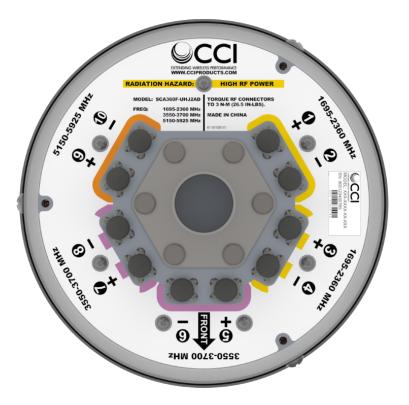
SCA360F-UHJ2A

SPECIFICATIONS

Mechanical	
Dimensions (L \times D)	24×8.5 in (610×216 mm)
Diameter max at top cap	8.8 in (224 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	26 lbs (116 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	1.0 ft ² (0.1 m ²)
Weight *	13.2 lbs (6.0 kg)
Connector	$10 \times NEX10$ female
Mounting Pole	1 to 2.5 in (2.5 to 6.3 cm)

* Weight excludes mounting

Bottom View



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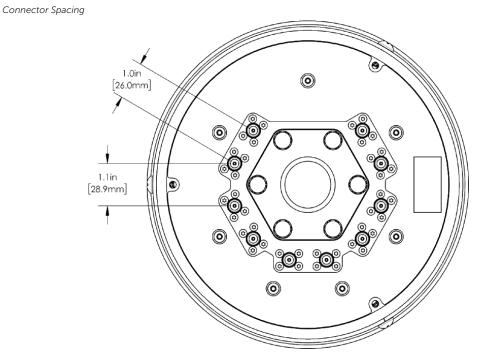


SPECIFICATIONS

Multi-Band Omni Antenna

SCA360F-UHJ2A

Mechanical



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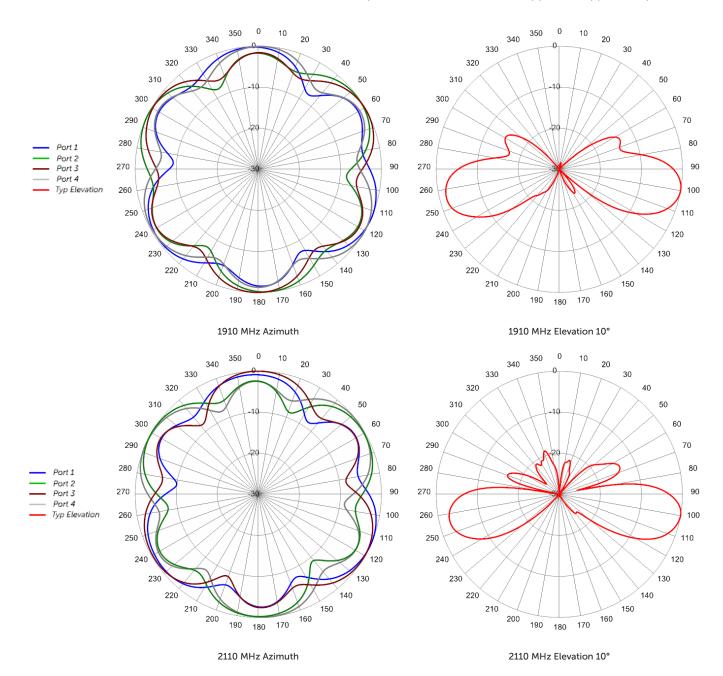
SPECIFICATIONS

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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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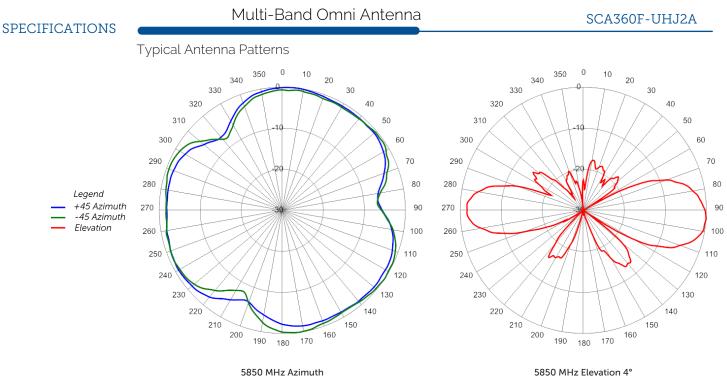
Multi-Band Omni Antenna SCA360F-UHJ2A **SPECIFICATIONS** Typical Antenna Patterns Port 5 Port 6 Port 7 Port 8 Typ Elevation 170 160 180 170 3600 MHz Azimuth 3600 MHz Elevation 2° Legend +45 Azimuth -45 Azimuth Elevation 190 180

5150 MHz Elevation 4°

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5150 MHz Azimuth





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ORDERING

Antennas

Multi-Band Omni Antenna

SCA360F-UHJ2A

Parts & Accessories	
SCA360F-UHJ2AA-K	Two foot (0.6 m) Multi-Band Omni antenna with 2 degree EDT on U band, NEX10 connectors and MBC-02 mounting bracket
SCA360F-UHJ2AB-K	Two foot (0.6 m) Multi-Band Omni antenna with 6 degree EDT on U band, NEX10 connectors and MBC-02 mounting bracket
SCA360F-UHJ2AC-K	Two foot (0.6 m) Multi-Band Omni antenna with 10 degree EDT on U band, NEX10 connectors and MBC-02 mounting bracket
SCA360F-UHJ2AD-K	Two foot (0.6 m) Multi-Band Omni antenna with 13 degree EDT on U band, NEX10 connectors and MBC-02 mounting bracket
MBC-02	Clamp kit, Pipe range 1 - 2.5 in. or lag bolt to wooden pole or flat surface (lag bolts not supplied)

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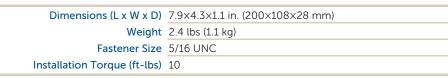
ACCESSORIES

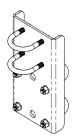
Antennas

Triple Mount Mast Bracket

MBC-02

Mechanical

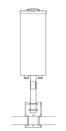




Bracket Vert. Mount View







Horizontal Pole Mount



Bracket Hort. Mount View



Wooden Pole Mount

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STANDARDS & CERTIFICATIONS

Multi-Band Omni Antenna

SCA360F-UHJ2A

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



