

| · Č. | Two foot (0.6 m), multi-band, four port quasi-omni antenna with 360° of coverage, covering 698-896 MHz and 1710-2360 MHz frequencies |
|--------------|---|
| | Two wide high band ports covering 1710-2360 MHz and two wide low band ports covering 698-896 MHz in a low profile cylindrical antenna |
| | Full Spectrum Compliance for WCS and AWS-3 Frequencies and upcoming Band 14 Operations |
| | Low profile cylindrical antenna makes this an ideal solution for Small Cell densification deployments in urban and suburban environments |
| | Antenna is equipped with center mount post, which makes it ideal for mounting on utility, lighting and traffic poles |
| | Exceeds minimum PIM performance requirements |
| | Equipped with new 4.3-10 connector, which is 40% smaller than traditional 7/16 DIN connectors |
| | Ordering options for a GPS antenna integrated into the radome |
| | |
| | |
| Overview | |
| | The CCI multi-band quasi-omni array is a four port Small Cell antenna, with two wide high band ports covering 1710-2360 MHz and two wide low band ports covering 698-896 MHz. The CCI Quasi-Omni Small Cell antenna provides 2x2 Multiple-input-Multiple-output (MIMO) across the high band and low band ports. The CCI Quasi-Omni Small Cell antenna is an ideal choice for Microcells, Small Cell and oDAS densification deployments in urban and suburban environments where antenna size and count are restricted. The CCI Quasi-Omni Small Cell antenna provides a fixed 2° EDT, across both low and high band frequencies. CCI antennas are designed and produced to ISO 9001 certification standards for reliability and quality in our state-of-the-art manufacturing facilities. |
| | |
| Applications | |

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

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Multi-Band Quasi-Omni Antenna

SCA360F-BU2A

SPECIFICATIONS

| Electrical | | | | | | |
|------------------------------------|--|-----------------|---|-----------------|-----------------|-------------------|
| Ports | Ports 2 × Ports which cover the full range from 698-896 MHz | | 2 × Ports which cover the full range from 1710-2360 MHz | | | |
| Frequency Range | 698-806 MHz | 824-896 MHz | 1850-1990 MHz | 1710-1780/21 | 10-2180 MHz | 2305-2360 MHz |
| Gain | 5.1 dBi | 5.9 dBi | 9.4 dBi | 8.8 dBi | 10.0 dBi | 10.5 dBi |
| Gain (Average) ² | 4.6 dBi | 5.4 dBi | 8.8 dBi | 8.4 dBi | 9.6 dBi | 10.4 dBi |
| Elevation Beamwidth (-3dB) | 31° | 32° | 17° | 18° | 14° | 13° |
| Electrical Downtilt | 2° | 2° | 2° | 2° | 2° | 2° |
| First upper sidelobes at peak gain | < -12 dB | < -11 dB | < -16 dB | < -16 dB | < -18 dB | < -18 dB |
| Cross-Polar Port-to-Port Isolation | > 20 dB | > 20 dB | > 25 dB | > 25 dB | > 23 dB | > 25 dB |
| Interband Port-to-Port Isolation | > 35 dB | > 35 dB | > 35 dB | > 35 dB | > 35 dB | > 35 dB |
| Voltage Standing Wave Ratio(VSWR) | < 1.5:1 | < 1.5:1 | < 1.5:1 | < 1.5:1 | < 1.5:1 | < 1.5:1 |
| Passive Intermodulation (2×20W) | ≤ -150 dBc | ≤ -150 dBc | ≤ -150 dBc | ≤ -150 dBc | ≤ -150 dBc | ≤ -150 dBc |
| Input Power Continuous Wave (CW) | 300 watts | 300 watts | 200 watts | 200 watts | 200 watts | 200 watts |
| Polarization | Dual Linear 45° | Dual Linear 45° | Dual Linear 45° | Dual Linear 45° | Dual Linear 45° | ' Dual Linear 45° |
| Input Impedance | 50 ohms | 50 ohms | 50 ohms | 50 ohms | 50 ohms | 50 ohms |
| Lightning Protection | DC Ground | DC Ground | DC Ground | DC Ground | DC Ground | DC Ground |
| Peak agin across sub bands | | | | | | |

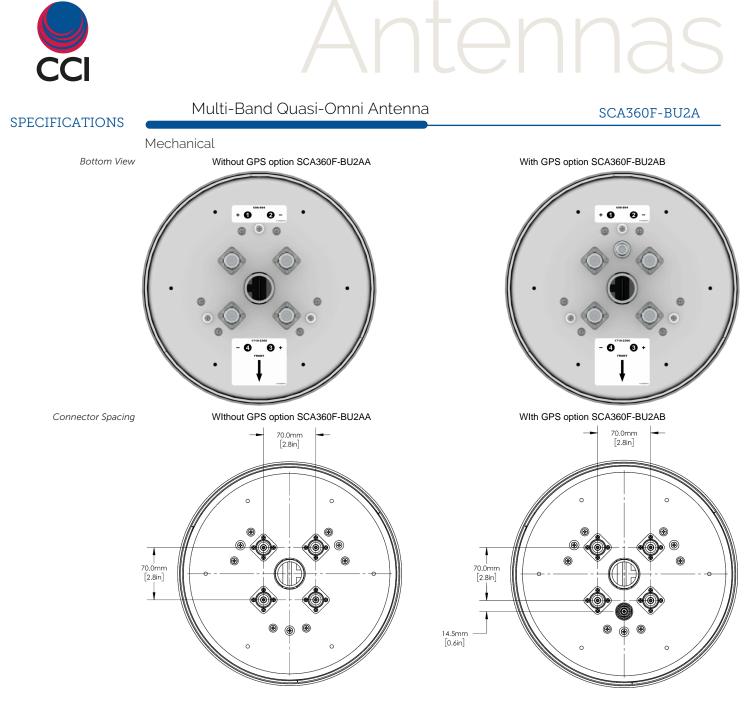
¹Peak gain across sub-bands.
²Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V9.6.

| Mechanical | |
|----------------------------|---|
| Dimensions (L×D) | 24.0 × 11.5 in (609 × 292 mm) |
| Survival Wind Speed | > 150 mph (> 241 kph) |
| Front Wind Load | 34 lbs (153 N) @ 100 mph (161 kph) |
| Equivalent Flat Plate Area | 1.3 ft ² (0.1 m ²) |
| Weight * | 14.3 lbs (6.5 kg) |
| Connector (RF) | 4 × 4.3-10 female |
| Connector (GPS) | Type "N" |
| Mounting Pole | 2 to 2.5 in (25 to 63 mm) |
| Wall mount Hardware | 0.5 in. (13 mm) diameter recommended |

* Weight excludes mounting

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Intennas



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ntenna

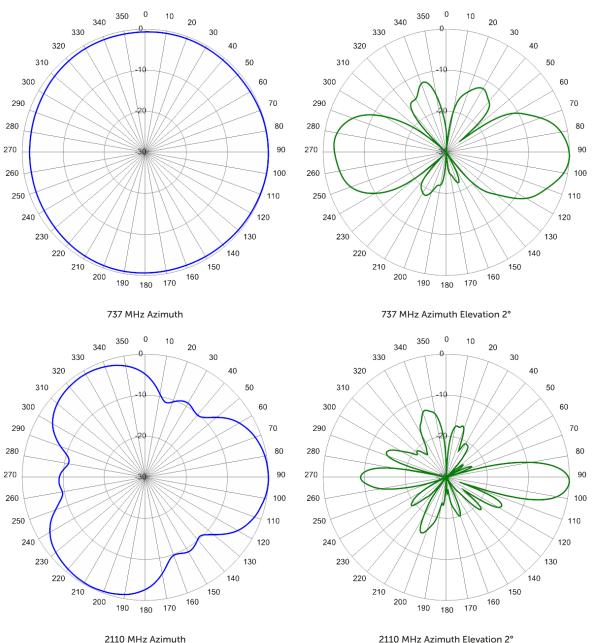
SPECIFICATIONS

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SCA360F-BU2A

Typical Antenna Patterns

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



2110 MHz Azimuth Elevation 2°

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Antennas

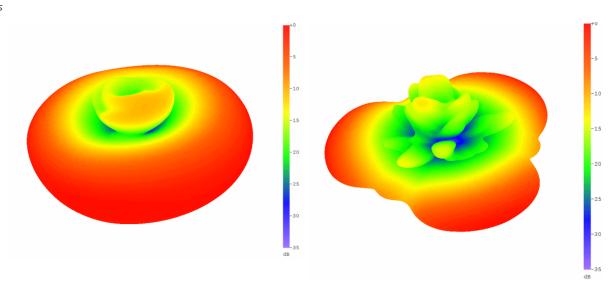


SPECIFICATIONS

Multi-Band Quasi-Omni Antenna

SCA360F-BU2A

3D Antenna Patterns



737 MHz

2110 MHz

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Antennas

ORDERING

Multi-Band Quasi-Omni Antenna

SCA360F-BU2A

| Parts & Accessories | | | | | |
|---------------------|--|---|--|--|--|
| SCA360F-BU2AA-K | | Omni, Multiband with 4.3-10 C-02 clamp kit (suitable for | | | |
| SCA360F-BU2AB-K | | Omni, Multiband with 4.3-10 rnal GPS and MBC-02 clamp mounting) | | | |
| MBC-02 | Clamp kit, Pipe range 1 - 2. pole or flat surface (lag bolt | | | | |

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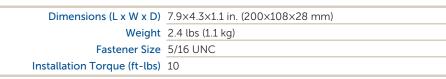
ACCESSORIES

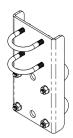
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Triple Mount Mast Bracket

MBC-02

Mechanical

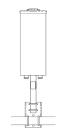




Bracket Vert. Mount View







Horizontal Pole Mount



Bracket Hort. Mount View



Wooden Pole Mount

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STANDARDS & CERTIFICATIONS

Multi-Band Quasi-Omni Antenna

SCA360F-BU2A

Standards & Compliance

| IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, |
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| 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 606529, IP 24 |
| |

Certifications

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



