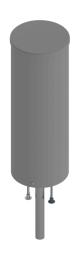


DATA SHEET

Wide Band Quasi-Omni Antenna

SCA360V-U2A



- Two foot (0.6 m), Singleband, four port 4T4R (4x4 MIMO) quasi-omni antenna with 360° of coverage, covering 1695-2400 MHz frequencies, with Dual VET control
- Four wide band ports covering 1695-2400 MHz, all within in a low weight and low profile cylindrical antenna
- Full Spectrum Compliance for 1695-2400 MHz, AWS3 and WCS
- With a 24" height and 8.5" diameter, this low profile cylindrical antenna is an ideal solution for Small Cell/C-RAN Densification deployments in difficult jurisdictional urban, suburban and rural environments
- The antenna is equipped with Dual VET control, with a tilt range of 4°-16°.
 The Dual VET control can provide independent tilt for each paired ports
- The antenna is equipped with removable center mount plate, which can be used for third party concealment applications or utilize a removeable 1.375 in (35 mm) OD center post, which makes it ideal for mounting on utility, lighting and traffic poles
- Exceeds minimum PIM performance requirements
- Equipped with 4.3-10 connectors, which is 40% smaller than 7/16 DIN connectors

Overview

The CCI Singleband Quasi-Omni array is a four port antenna Small Cell antenna, with four wide band ports covering 1695-2400 MHz. The CCI Singleband Quasi-Omni Small Cell antenna provides 4x4 Multiple-input-Multiple-output (MIMO) functionality across the 1695-2400 ports. The CCI Singleband Quasi-Omni Small Cell antenna is equipped with Dual VET control, with a tilt range of 4°-16°, capable of providing independent tilt per pair ports, providing flexibility for network coverage needs.

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, 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



SPECIFICATIONS

Wide Band Quasi-Omni Antenna

SCA360V-U2A

Electrical

Ports	4 x High Band Ports for 1695-2400 MHz			
Frequency Range	1695-1880 MHz	1850-1990 MHz	1920-2180 MHz	2300-2400 MHz
Gain	10.3 dBi	10.3 dBi	10.5 dBi	10.2 dBi
Gain (Average) ²	9.1 dBi	9.5 dBi	9.7 dBi	9.6 dBi
Elevation Beamwidth (-3dB)	14.8°	13.7°	13.0°	11.7°
Electrical Downtilt	4° to 16°	4° to 16°	4° to 16°	4° to 16°
Elevation Sidelobes (1st Upper)	< -16 dB	< -16 dB	< -16 dB	< -18 dB
Cross-Polar Port-to-Port Isolation	> 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)	300 watts	300 watts	300 watts	300 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.

Mechanical

Dimensions (LxD) 24x8.5 in (617x216 mm)

Diameter max at top cap 8.8 in (224 mm)

Survival Wind Speed > 150 mph (> 241 kph)

Wind Load 26 lbs (116 N) @ 100 mph (161 kph)

Equivalent Flat Plate Area 1.0 ft² (0.1 m²)

Weight * 13.2 lbs (6.0 kg)

Connector $4 \times 4.3-10$ female

Mounting Pole 1.0 to 2.5 in (2.5 to 6.3 cm)

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

^{*} Weight excludes mounting kit



SPECIFICATIONS

Wide Band Quasi-Omni Antenna

SCA360V-U2A

Bottom View





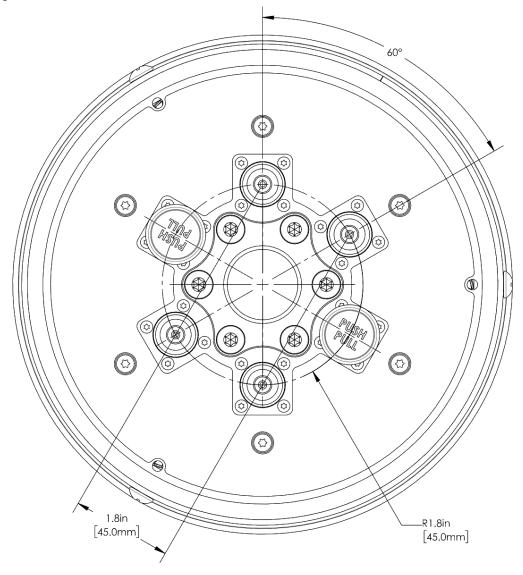
SPECIFICATIONS

Wide Band Quasi-Omni Antenna

SCA360V-U2A

Mechanical

Connector Spacing





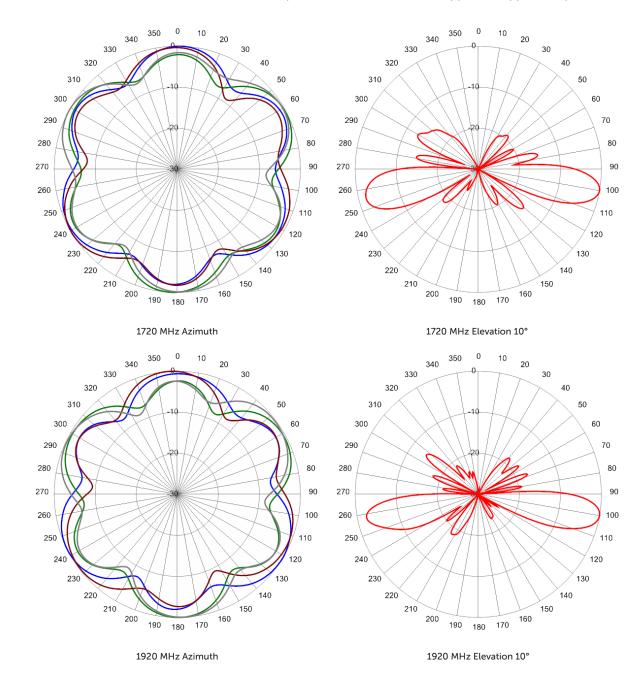
SPECIFICATIONS

Wide Band Quasi-Omni Antenna

SCA360V-U2A

Typical Antenna Patterns

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

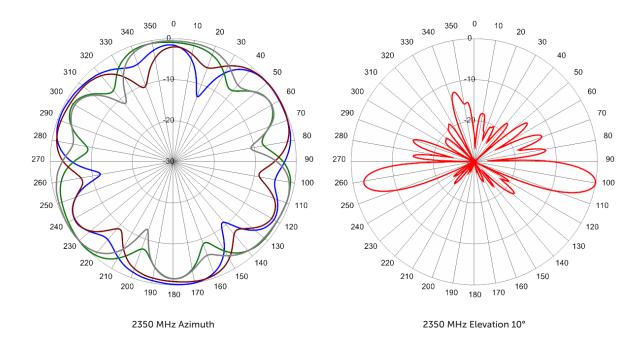




SPECIFICATIONS

Wide Band Quasi-Omni Antenna

SCA360V-U2A





ORDERING

Wide Band Quasi-Omni Antenna

SCA360V-U2A

Parts & Accessories

SCA360V-U2AA-K	Two foot (0.6 m) Wideband Omni antenna with 4.3-10 connectors, two
	factory install manual VET actuators and MBC-02 mounting kit

SCA360V-U2AA-K1 Two foot (0.6 m) Wideband Omni antenna with 4.3-10 connectors, two factory install manual VET actuators and MBC-05 clamp kit (suitable for pole top mounting)

MBC-02 Clamp kit, Pipe range 1-2.5 in (2.5-6.3 cm) or lag bolt to wooden pole or flat surface. (lag bolts not supplied)

MBC-05 Pole top mounting kit suitable for 4" (10 cm) and larger wood, steel or concrete utility or lighting poles.



ACCESSORIES

Triple Mount Mast Bracket

MBC-02

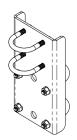
Mechanical

Dimensions (L x W x D) 7.9×4.3×1.1 in. (200×108×28 mm)

Weight 2.4 lbs (1.1 kg)

Fastener Size 5/16 UNC

Installation Torque (ft-lbs) 10



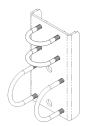
Bracket Vert. Mount View



Vertical Pole Mount



Horizontal Pole Mount



Bracket Hort. Mount View



Wooden Pole Mount

11/16/2017



ACCESSORIES

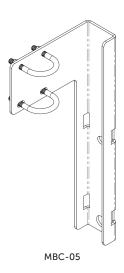
Mounting Bracket Kit

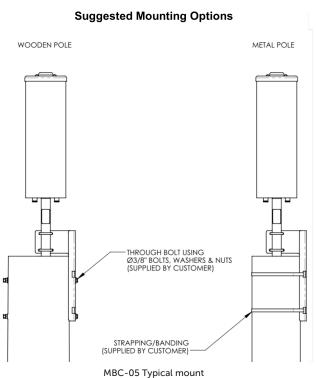
MBC-05

Mechanical

Weight 4.1 lbs (1.8 kg)

Mounting Pole Dimension 4 in (10 cm) and greater







tenna

STANDARDS & **CERTIFICATIONS** Wide Band Quasi-Omni Antenna

SCA360V-U2A

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, CE, CSA US, ISO 9001











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