

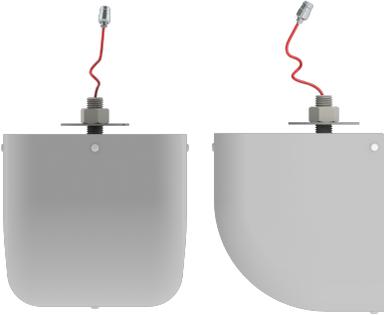


Antennas

DATA SHEET

Small Cell IDA Antenna

IDA-65F-Z-H1-Cx



- Single port covering bands between 698 to 2690 MHz
- Over 30 dB front to back ratio
- Simple ceiling mount installation
- Linear polarization can be Vertical or Horizontal based on mounting orientation of the antenna
- RF Pigtail for easy connection
- Low Passive Intermodulation Products
- Patented architecture minimizes interference
- Minimizes interference with macro networks
- 7-16 DIN or type N connector options

Overview

The CCI AccuBeam Indoor Antenna is an LTE ready multi-band antenna that covers the full 698 MHz thru 2700 MHz spectrum. The AccuBeam Antenna employs a unique patented architecture that provides extremely high front to back isolation and thus is an ideal candidate for reducing cell-to-cell interference in indoor multi-sector deployments. This antenna can be used in buildings and at sporting and entertainment venues where it is desirable to limit the spillover from the indoor DAS or Small Cell system from the surrounding macro network. Furthermore, the antenna can be used within buildings and venues where multiple sectors are deployed to minimize interference between sectors that reuse the same frequencies. Such an approach enhances data transfer rates within LTE, UMTS and EVDO network sectors and addresses "hotspots" in indoor mobile wireless operator networks.

The AccuBeam Antenna is an ideal candidate for both iDAS and indoor small cell applications where the unique beam shaping technology provides high front to back isolation, minimizing interference between sectors thus increasing the carrier to interference plus noise (CINR) ratio and lowering soft handover losses in LTE, UMTS/HSPA+ and CDMA/EVDO networks. The antenna is housed in an aesthetically pleasing enclosure suitable for indoor office environments.

CCI antennas are designed and produced to ISO 9001 certification standards for reliability and quality in our state-of-the-art manufacturing facilities.

Applications

- Multi-sector multi-band indoor in-building DAS and Small Cell deployments
- Multi-sector multi-band indoor sporting and entertainment venues
- VIP suites in stadiums
- Adjacent sectors in buildings



Antennas

SPECIFICATIONS

Small Cell IDA Antenna

IDA-65F-Z-H1-Cx

Electrical

	Ports	1x Port for 698-960 MHz and 1710-2700 MHz	
		698-960 MHz	1710-2700 MHz
Frequency Range		698-960 MHz	1710-2700 MHz
Gain		7.8 dBi	8.5 dBi
Azimuth Beamwidth (-3dB)		65°	50°
Elevation Beamwidth (-3dB)		75°	75°
Electrical Downtilt		45°	45°
Front-to-Back Ratio @180°		> 30 dB	> 28 dB
Cross-Polar Discrimination (at Peak)		> 25 dB	> 25 dB
Voltage Standing Wave Ratio(VSWR)		< 2:1	< 2:1
Passive Intermodulation (2x5W)		≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)		40 watts	40 watts
Polarization		Linear Horizontal	Linear Horizontal
Input Impedance		50 ohms	50 ohms

Mechanical

Dimensions (LxWxD)	10.0x10.7x9.8 in (254x272x249 mm)
Weight	1.4 lbs (0.6 kg)
Connector	1x N female cable or 7-16 DIN female cable
Mounting Stud	1-8 UNC
Mounting Hole	1.125 in ID (29 mm)



Antennas

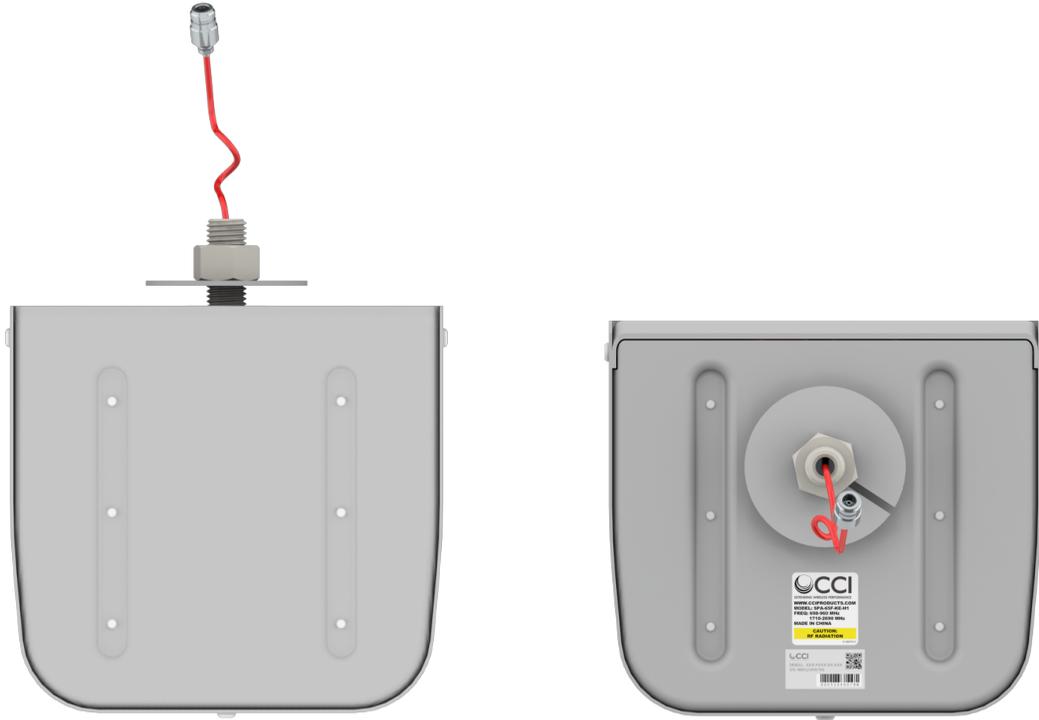
SPECIFICATIONS

Small Cell IDA Antenna

IDA-65F-Z-H1-Cx

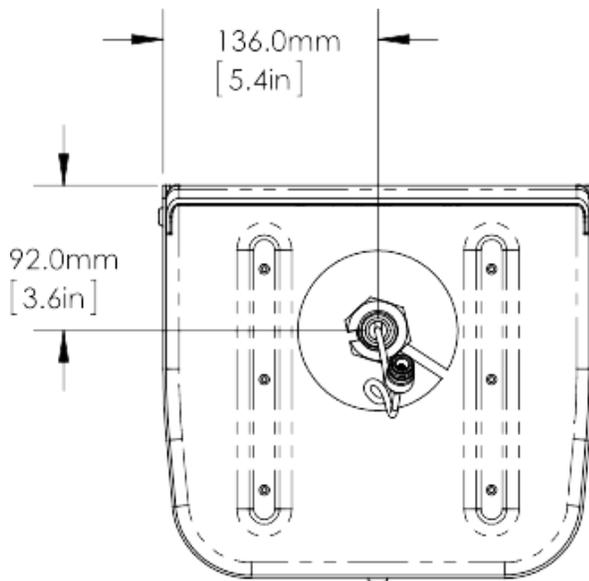
Mechanical

Back and Top View



Mechanical

Connector Spacing





Antennas

SPECIFICATIONS

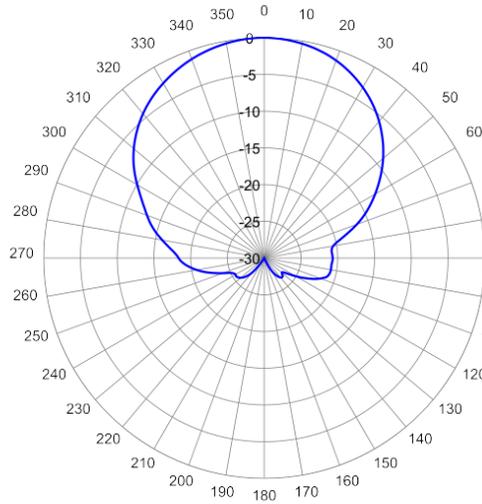
Small Cell IDA Antenna

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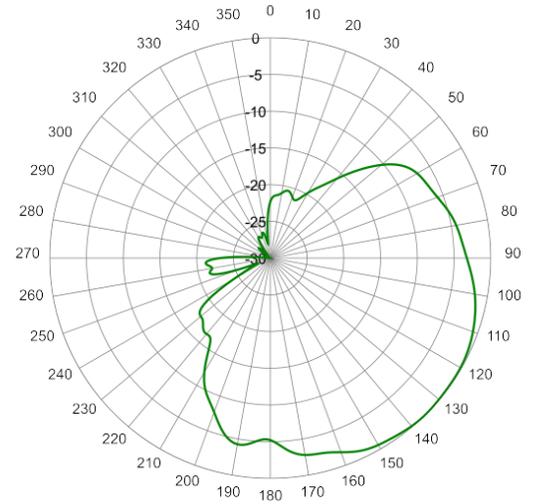
Typical Antenna Patterns

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

— Azimuth
— Elevation

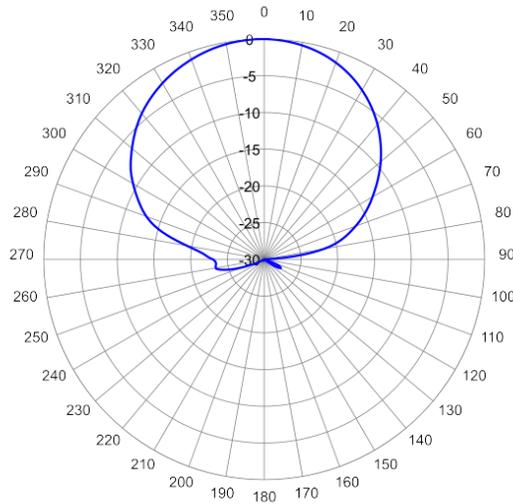


737 MHz Azimuth

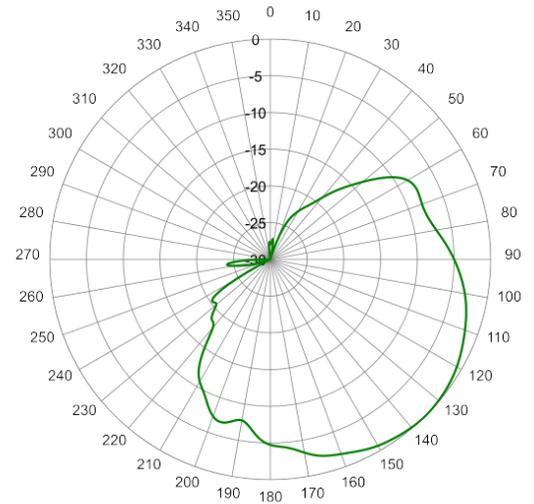


737 MHz Elevation 45°

— Azimuth
— Elevation



934 MHz Azimuth



934 MHz Elevation 45°



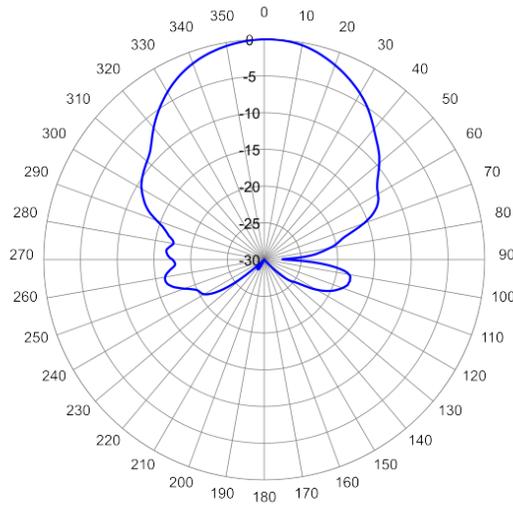
Antennas

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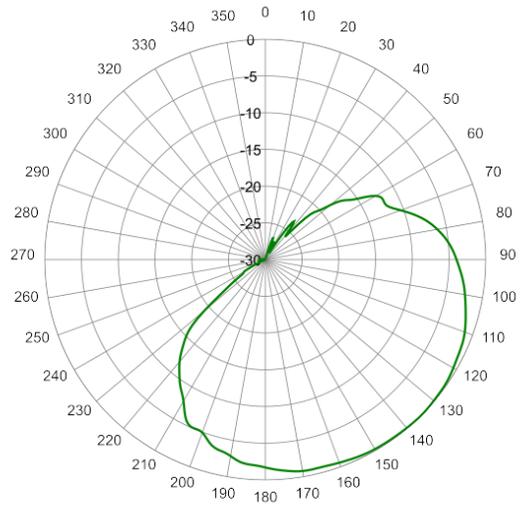
Small Cell IDA Antenna

IDA-65F-Z-H1-Cx

— Azimuth
— Elevation



1920 MHz Azimuth



1920 MHz Elevation 45°



Antennas

ORDERING

Small Cell IDA Antenna

IDA-65F-Z-H1-Cx

Parts & Accessories

IDA-65F-Z-H1-C1	1 foot (0.3 m) antenna with 65° azimuth beamwidth and 7-16 DIN female connector pigtail
IDA-65F-Z-H1-C4	1 foot (0.3 m) antenna with 65° azimuth beamwidth and N female connector pigtail
IDA-65F-Z-H1-C1-K	1 foot (0.3 m) antenna with 65° azimuth beamwidth, 7-16 DIN female connector for ceiling/wall mount and includes plastic nut and large diameter flat washer
IDA-65F-Z-H1-C4-K	1 foot (0.3 m) antenna with 65° azimuth beamwidth, N female connector for ceiling/wall mount and includes plastic nut and large diameter flat washer



Antennas

STANDARDS & CERTIFICATIONS

Small Cell IDA Antenna

IDA-65F-Z-H1-Cx

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

