

# Base Station Antennas



PerforMax™

## ANTENNA SPECIFICATIONS

### ANTENNA TYPE: CTSD09-06513-4D

Description: 870-960 MHz, dual polarized, 65 degree azimuth beamwidth, 13 dBd gain panel antenna with 4 degrees of electrical downtilt

### Electrical Specifications

Frequency Band, MHz	870-960
Gain, dBd (dBi)	12.9 (15.1)
Azimuth Beamwidth, degrees	65
Elevation Beamwidth, degrees	12
Front-to-Back Ratio, dB	>25
Return Loss, dB (VSWR)	>14.0 (<1.5)
Impedance, ohms	50
Intermodulation, dBc	<-150
Port to Port Isolation, dB	>30
Polarization Type	Dual, Slant 45
Electrical Downtilt, degrees	4
Maximum Input Power, watts	500
Lightning Protection	DC Ground
Connector Type	7-16 DIN Female
Connector Position	Center
Number of Connectors	2

### Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	1512 (59.5) x 266 (10.5) x 177 (7)
Antenna Weight, kg (lb)	12.7 (28.0)
Radome Color	Gray
Radome Material	UV Protected PVC

### Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	641 (144)
Wind Load - lateral, N (lbf)*	284 (64)
Wind Load - rear, N (lbf)*	659 (148)
Temperature Range, degrees C	-40 to +65
Humidity, %	Up to 100

\* Based on 100 mph (161 km/h)

### Shipping Specifications

Shipping Dimensions - L x W x D, mm (in)	1702 (67) x 406 (16) x 267 (10.5)
Shipping Weight, kg (lb)	16.0 (35.3)

### Mounting Hardware Specifications

Mounting Bracket Part Number	600899A-2
Mount Description	Adjustable downtilt, 0 to 15 degrees
Mount Weight, kg (lb)	4.1 (9.0)
To include mounting bracket with antenna, order part number:	<b>CTSD09-06513-4DM</b>
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1702 (67) x 406 (16) x 267 (10.5)
Shipping Weight - mount with antenna, kg (lb)	20.3 (44.8)

### Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

[www.andrew.com](http://www.andrew.com)

This Specification Sheet is for reference only and is subject to change without notice.

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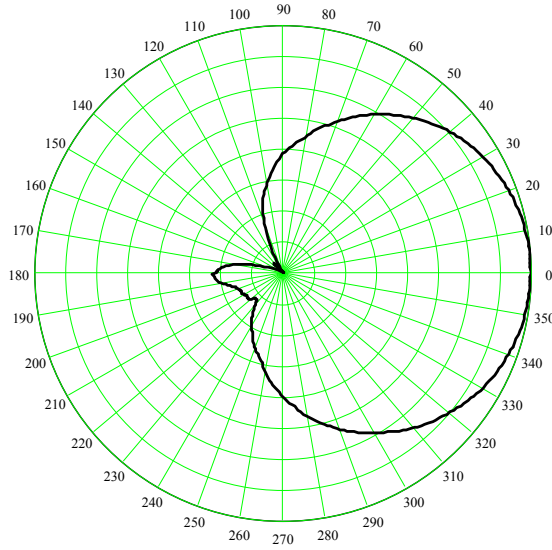
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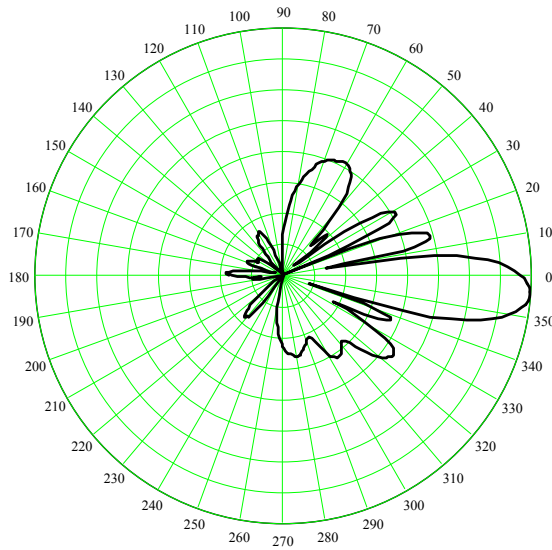
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Azimuth Pattern  
Polar Plot Center = -40dB  
5 dB / radial division  
10 degree / angular division



Elevation Pattern  
Polar Plot Center = -40dB  
5 dB / radial division  
10 degree / angular division

Pattern File 6405341  
Measured at 915 MHz