

Base Station Antennas



PerforMax™

ANTENNA SPECIFICATIONS

ANTENNA TYPE: PCSD18-06516-4D

Description: 1710-1880 MHz, dual polarized, 65 degree azimuth beamwidth, 16 dBd gain panel antenna with 4 degrees of electrical downtilt

Electrical Specifications

Frequency Band, MHz	1710-1880
Gain, dBd (dBi)	15.3 (17.5)
Azimuth Beamwidth, degrees	65
Elevation Beamwidth, degrees	7
Front-to-Back Ratio, dB	>25
Return Loss, dB (VSWR)	>15.5 (<1.4)
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	300
Lightning Protection	DC Ground
Connector Type	7-16 DIN Female
Connector Position	Bottom
Number of Connectors	2

Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	1473 (58) x 173 (6.8) x 89 (3.5)
Antenna Weight, kg (lb)	6.8 (15.0)
Radome Color	Gray
Radome Material	UV Protected PVC

Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	483 (109)
Wind Load - lateral, N (lbf)*	118 (27)
Wind Load - rear, N (lbf)*	483 (109)
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)	1607 (63) x 300 (11.8) x 254 (10)
Shipping Weight, kg (lb)	11.0 (24.3)

Mounting Hardware Specifications

Mounting Bracket Part Number	600691A-2
Mount Description	Adjustable downtilt, 0 - 14 degrees
Mount Weight, kg (lb)	1.0 (2.2)
To include mounting bracket with antenna, order part number:	PCSD18-06516-4DM
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1612 (63.3) x 300 (11.8) x 254 (10)
Shipping Weight - mount with antenna, kg (lb)	15.3 (33.8)

Customer Support Center:
From North America: 1-800-255-1479
International: +1-708-873-2307

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PerforMaxTM

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 640498
Measured at 1795 MHz