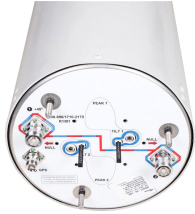


NH65PS-DG-FOM



2-port small cell antenna, 2x (698-896 and 1710-2180 MHz), 65° HPBW (bi-directional) with fixed tilt in the low band and manual tilt in the high band. Contains internal diplexer and GPS antenna.

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2180
Gain, dBi	6.4	7.0	9.0	9.3	9.3
Beamwidth, Horizontal, degrees	70	69	62	58	56
Beamwidth, Vertical, degrees	37.0	34.5	14.7	13.9	13.3
Beam Tilt, degrees	0	0	0-16	0-16	0-16
USLS (First Lobe), dB	17	17	12	12	11
CPR at Boresight, dB	15	18	19	21	18
CPR at Sector, dB	8	5	7	8	8
Isolation, Cross Polarization, dB	25	25	25	25	25
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	125	125	125	125	125
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2180
Gain by all Beam Tilts, average, dBi	6.6	6.9	9.3	9.5	9.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.8	±0.8	±0.7	±0.8
Gain by Beam Tilt, average, dBi			0 ° 9.7 8 ° 9.4 16 ° 8.6	0 ° 10.0 8 ° 9.6 16 ° 8.8	0 ° 9.9 8 ° 9.5 16 ° 8.9
Beamwidth, Horizontal Tolerance, degrees	±4.4	±6.7	±5.6	±5.4	±6
Beamwidth, Vertical Tolerance, degrees	±3.2	±1.9	±1.3	±0.8	±1.2
USLS, beampeak to 20° above beampeak, dB	18	18	12	13	12
CPR at Boresight, dB	15	19	20	22	19
CPR at Sector, dB	9	5	8	8	8

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

General Specifications

Operating Frequency Band	1710 – 2180 MHz 698 – 896 MHz
Antenna Type	Small Cell
Band	Multiband

NH65PS-DG-FOM

Internal GPS frequency band	1575.42 MHz
Internal GPS VSWR	2.0
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	2
RF Connector Interface	7-16 DIN Female
Color	Light gray
GPS Connector Interface	4.1-9.5 DIN Female
GPS Connector Quantity	1
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Aluminum Low loss circuit board
Radome Material	ASA, UV stabilized
Reflector Material	Aluminum
RF Connector Location	Bottom
RF Connector Quantity, duplexed low and high bands	2
Wind Loading, frontal	121.0 N @ 150 km/h 27.2 lbf @ 150 km/h
Wind Loading, maximum	121.0 N @ 150 km/h 27.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	728.0 mm 28.7 in
Outer Diameter	305.0 mm 12.0 in
Net Weight, without mounting kit	11.5 kg 25.4 lb

Packed Dimensions

Length	998.0 mm 39.3 in
Width	427.0 mm 16.8 in
Depth	407.0 mm 16.0 in
Shipping Weight	16.2 kg 35.7 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance