

NH65T-DG-F0



2-port small cell antenna, 2x (698-896 and 1710-2180 MHz), 65° HPBW, fixed electrical tilt, with internal diplexer and active GPS L1 band antenna.

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain, dBi	7.7	8.2	11.6	11.6	11.5
Beamwidth, Horizontal, degrees	75	66	53	55	55
Beamwidth, Vertical, degrees	73.7	66.9	32.5	31.0	29.0
Beam Tilt, degrees	5	5	0	0	0
Front-to-Back Ratio at 180°, dB	20	20	34	36	30
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 at 50°C, maximum, watts	75	75	75	75	75
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	7.3	7.9	11.5	11.5	11.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.7	±0.3	±0.3	±0.3
Beamwidth, Horizontal Tolerance, degrees	±5.9	±9.3	±1.9	±1.8	±2.5
Beamwidth, Vertical Tolerance, degrees	±6.6	±8	±1	±1.3	±2.8
Front-to-Back Total Power at 180° ± 30°, dB	15	14	27	27	23

* 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
Internal GPS frequency band	1575.42 MHz
Internal GPS VSWR	2.0
Performance Note	Outdoor usage
Total Input Power, maximum	150 W @ 50 °C

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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	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
RF Connector Quantity, diplexed low and high bands	2
Wind Loading, frontal	52.0 N @ 150 km/h 11.7 lbf @ 150 km/h
Wind Loading, lateral	39.0 N @ 150 km/h 8.8 lbf @ 150 km/h
Wind Loading, maximum	101.0 N @ 150 km/h 22.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	389.0 mm 15.3 in
Width	301.0 mm 11.9 in
Depth	181.0 mm 7.1 in
Net Weight, without mounting kit	4.7 kg 10.4 lb

Packed Dimensions

Length	576.0 mm 22.7 in
Width	409.0 mm 16.1 in
Depth	299.0 mm 11.8 in
Shipping Weight	8.7 kg 19.2 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)



Included Products

DB380-SINGLE — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes only one clamp set and uses double nuts.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance