

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.

This product will be discontinued on: March 31, 2021

General Specifications

Antenna Type	Small Cell
Band	Multiband
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
Internal GPS frequency band	1,575.42 MHz
Internal GPS VSWR	2
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, diplexed low and high bands	2
RF Connector Quantity, total	2

Dimensions

Width	301 mm 11.85 in
Length	389 mm 15.315 in

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Depth 181 mm | 7.126 in

Electrical Specifications

Impedance 50 ohm
Operating Frequency Band 1710 – 2180 MHz | 698 – 896 MHz
Polarization $\pm 45^\circ$
Total Input Power, maximum 150 W @ 50 °C

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	65.9	53	55	55
Beamwidth, Vertical, degrees	73.7	66.9	32.5	31	29
Beam Tilt, degrees	0–11	0–11	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

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° \pm 30°, dB	15	14	27	27	23

Mechanical Specifications

Wind Loading at Velocity, frontal 118.2 lbf @ 150 km/h | 52.0 N @ 150 km/h
Wind Loading at Velocity, lateral 39.0 N @ 150 km/h | 8.76 lbf @ 150 km/h

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Wind Loading at Velocity, maximum	101.0 N @ 150 km/h 22.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	409 mm 16.102 in
Depth, packed	299 mm 11.772 in
Length, packed	576 mm 22.677 in
Net Weight, without mounting kit	4.7 kg 10.362 lb
Weight, gross	8.7 kg 19.18 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant



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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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