

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.

OBSOLETE

This product was discontinued on: March 31, 2021

General Specifications

Antenna Type	Small Cell
Band	Multiband
Color	Light Gray (RAL 7035)
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	ASA, UV stabilized
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 mid bands	2
RF Connector Quantity, total	2

Dimensions

Length	728 mm 28.661 in
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NH65PS-DG-FOM

Net Weight, without mounting kit	11.5 kg 25.353 lb
Outer Diameter	305 mm 12.008 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz 698 – 896 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain, dBi	6.4	7	9	9.3	9.3
Beamwidth, Horizontal, degrees	70	69	61.9	57.9	56
Beamwidth, Vertical, degrees	37	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

Mechanical Specifications

Wind Loading @ Velocity, frontal	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	427 mm 16.811 in
Depth, packed	407 mm 16.024 in
Length, packed	998 mm 39.291 in

NH65PS-DG-FOM

Weight, gross

16.2 kg | 35.715 lb

Regulatory Compliance/Certifications

Agency

Classification

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

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance