

NH65S-DG-F0M



2-port small cell antenna, 2x (698-896 and 1710–2180 MHz), 65° HPBW with fixed tilt in the low band and manual tilt in the high band. Contains internal diplexer and active GPS L1 band antenna.

OBSOLETE

This product was discontinued on: **March 31, 2023**

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	Fiberglass, UV resistant
Radiator Material	Aluminum Low loss circuit board
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

Width	301 mm 11.85 in
Depth	181 mm 7.126 in

NH65S-DG-FOM

Length 728 mm | 28.661 in
Net Weight, without mounting kit 7.6 kg | 16.755 lb

Electrical Specifications

Impedance 50 ohm
Operating Frequency Band 1710 – 2180 MHz | 698 – 896 MHz
Polarization $\pm 45^\circ$

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain, dBi	10.1	10.5	14	14.1	14
Beamwidth, Horizontal, degrees	69	65	60	60	61
Beamwidth, Vertical, degrees	39.9	35.7	14.1	13.5	13.1
Beam Tilt, degrees	0	0	0–16	0–16	0–16
USLS (First Lobe), dB	15	15	12	13	13
Front-to-Back Ratio at 180°, dB	24	32	24	25	25
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 98.0 N @ 150 km/h (22.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral 77.0 N @ 150 km/h (17.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum 188.0 N @ 150 km/h (42.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear 99.0 N @ 150 km/h (22.3 lbf @ 150 km/h)
Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed 409 mm | 16.102 in
Depth, packed 299 mm | 11.772 in
Length, packed 976 mm | 38.425 in

NH65S-DG-FOM

Weight, gross

13.9 kg | 30.644 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.andrew.com/ProductCompliance

Included Products

BSAMNT-3

- Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance