

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 high bands	2
RF Connector Quantity, total	2

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in

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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	±45°

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

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	9.5	10.1	13.5	13.8	13.6
Gain by all Beam Tilts Tolerance, dB	±1.3	±0.8	±0.7	±0.5	±0.6
Gain by Beam Tilt, average, dBi			0° 14.0 8° 13.5 16° 12.9	0° 14.2 8° 13.8 16° 13.3	0° 14.0 8° 13.6 16° 13.3
Beamwidth, Horizontal Tolerance, degrees	±7.5	±4.6	±5.1	±5.4	±7.7
Beamwidth, Vertical Tolerance, degrees	±6	±3.2	±1.1	±0.7	±0.8
USLS, beampeak to 20° above			12	13	13

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beampeak, dB

Front-to-Back Total Power at 180° ± 30°, dB	19	20	21	20	19
CPR at Boresight, dB	16	17	18	16	16
CPR at Sector, dB	9	5	9	9	10

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
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.commscope.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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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
UK-ROHS	Compliant

BSAMNT-3

