

NH65S-DG-FOM



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.

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2180
Gain, dBi	10.1	10.5	14.0	14.1	14.0
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
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	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 beampeak, dB			12	13	13
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

* 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

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Band	Multiband
Internal GPS frequency band	1575.42 MHz
Internal GPS VSWR	2.0
Performance Note	Outdoor usage

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
RF Connector Location	Bottom
RF Connector Quantity, diplexed low and high bands	2
Wind Loading, frontal	98.0 N @ 150 km/h 22.0 lbf @ 150 km/h
Wind Loading, lateral	77.0 N @ 150 km/h 17.3 lbf @ 150 km/h
Wind Loading, maximum	188.0 N @ 150 km/h 42.3 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	728.0 mm 28.7 in
Width	301.0 mm 11.9 in
Depth	181.0 mm 7.1 in
Net Weight, without mounting kit	7.6 kg 16.8 lb

Packed Dimensions

Length	976.0 mm 38.4 in
Width	409.0 mm 16.1 in
Depth	299.0 mm 11.8 in
Shipping Weight	13.9 kg 30.6 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption

NH65S-DG-FOM

ISO 9001:2015
China RoHS SJ/T 11364-2014

Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)



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

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.

General Specifications

Application	Outdoor
Includes	Brackets Hardware
Package Quantity	1

Mechanical Specifications

Color	Silver
Material Type	Galvanized steel

Dimensions

Compatible Diameter, maximum	115.0 mm 4.5 in
Compatible Diameter, minimum	60.0 mm 2.4 in
Net Weight	6.2 kg 13.7 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)
CE	Compliant with the relevant CE product directives

