

16-port sector antenna, 4x 698–896, 8x 1695–2360 and 4x 3550- 3700 MHz, 45° HPBW, 3x RETs and 3x SBTs.

- Features broadband Low Band (698-896 MHz), Mid Band(1695-2360 MHz) and High Band (3550-3700 MHz) arrays for 4T4R (4X MIMO) capability for bands 5, 13, 25, 66 and 48. Also covers bands 12, 14, 29, and 30
- Perfect antenna to add 3.5GHz CBRS to macro sites
- Array configuration provides capability for 4T4R (4X MIMO) on Low Band, dual 4T4R (4X MIMO) on Mid Band and 4T4R (4X MIMO) on High Band
- Excellent wind loading characteristics
- Non-stacked mid band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	3 female 3 male
Input Voltage	10-30 Vdc

Page 1 of 6

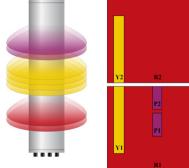


NNH4SS-45A-R3BT8

Internal Bias Tee	Port 1 Port 5 Port 7
Internal RET	Low band (1) Mid band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0
Dimensions	
Width	457 mm 17.992 in
Depth	178 mm 7.008 in

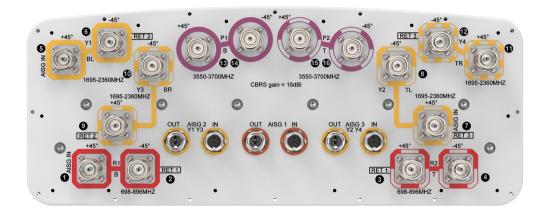
Length	1399 mm 55.079 in
Net Weight, antenna only	29.5 kg 65.036 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2		41551	(D)	
R2	698-896	3 - 4	1 AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXR1		
¥1	1695-2360	5 - 6			<u></u>	
Y3	1695-2360	9 - 10	2	AISG2	CPxxxxxxxxxxxxxXXXXXXXXXXY1	
¥2	1695-2360	7 - 8			41552	CDuanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
¥4	1695-2360	11 - 12	3	AISG3	CPxxxxxxxxxxxxxXXXXXXXXXXY2	
P1	3550-3700	13 - 14	NUZA	NA	N1/4	
P2	3550-3700	15 - 16	N/A	INA	N/A	

Port Configuration



Page 2 of 6



NNH4SS-45A-R3BT8

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 3550 – 3700 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,600 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
Gain, dBi	12.7	13.3	15.3	15.7	16.3	16.5	15
Beamwidth, Horizontal, degrees	48	44	44	41	39	37	45
Beamwidth, Vertical, degrees	36	30.4	14.5	13.6	12.8	11.1	15.6
Beam Tilt, degrees	2-18	2-18	0-10	0-10	0-10	0-10	8
USLS (First Lobe), dB	19	17	16	17	16	15	16
Front-to-Back Ratio at 180°, dB	33	30	31	32	31	30	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200	100

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
Gain by all Beam Tilts, average, dBi	12.1	13	14.7	15.3	15.8	16	14.5
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.5	±0.8	±0.6	±0.7	±0.6	±1.6
Beamwidth, Horizontal Tolerance, degrees	±3	±2.8	±3.7	±2.5	±3.1	±3	±4.3
Beamwidth, Vertical Tolerance, degrees	±3.5	±2.6	±1.1	±0.8	±1	±0.7	±1.2
Front-to-Back Total Power at 180° ± 30°, dB	25	23	23	25	25	25	32
CPR at Boresight, dB	20	20	17	18	18	20	14

Page 3 of 6



CPR at 10 dB Horizontal Beamwidth, dB	14	12	7	9	10	11	10
Mechanical Specific	ations						
Effective Projective Area (EPA	0.74 m² 7.965 ft²						
Effective Projective Area (EPA), lateral 0.15 m ² 1.615							
Wind Loading @ Velocity, front	tal		788.0 N @ 15	0 km/h (177.1	lbf @ 150 km/	/h)	

Wind Loading @ Velocity, lateral	159.0 N @ 150 km/h (35.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	563 mm 22.165 in
Depth, packed	355 mm 13.976 in
Length, packed	1572 mm 61.89 in
Weight, gross	42 kg 92.594 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
UK-ROHS	Compliant

Included Products

0001.2015

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

Page 4 of 6



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

Page 5 of 6







Page 6 of 6

