

16- Port sector antenna, 4x 698-896, 8x 1695-2360 and 4x 3550-3700MHz, 65° HPBW, 3x RETs and 3x SBTs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Excellent wind loading characteristics
- Features broadband Low Band (698-896 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for Band 14, AWS, PCS and WCS applications
- Perfect antenna to add 3.5GHz CBRS to macro sites
- Non-stacked high band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs

General Specifications

BandMultibandColorLight Gray (RAL 7035)Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardReflector MaterialAluminum
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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
Internal RET	Low band (1) Mid band (2)

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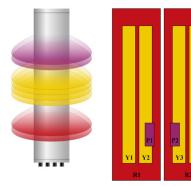


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NNH4SS-65B-R3BT8

Protocol	3GPP/AISG 2.0		
Dimensions			
Width	498 mm 19.606 in		
Depth	197 mm 7.756 in		
Length	1848 mm 72.756 in		
Net Weight, without mounting kit	34.9 kg 76.941 lb		

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2			CD D	
R2	698-896	3 - 4	1	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXR1	
Y1	1695-2360	5 - 6	2	410.00	CD	
Y2	1695-2360	7 - 8	2	AISG2	CPxxxxxxxxxxxxxxXXXXXXY1	
Y3	1695-2360	9 - 10	3	41662	CD	
¥4	1695-2360	11 - 12	3	AISG3	CPxxxxxxxxxxxxxXXXXXXXX	
P1	3550-3700	13 - 14	NI/A		51/4	
P2	3550-3700	15 - 16	N/A	NA	N/A	

Port Configuration





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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	14.3	14.9	16.7	17.3	17.8	18.1	13.9
Beamwidth, Horizontal, degrees	71	63	71	67	62	60	62
Beamwidth, Vertical, degrees	11.4	10.1	6.9	6.4	6.1	5.6	16.2
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	8
USLS (First Lobe), dB	16	17	15	17	18	20	15
Front-to-Back Ratio at 180°, dB	30	28	36	35	34	36	33
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

Mechanical Specifications

629.0 N @ 150 km/h (141.4 lbf @ 150 km/h)
191.0 N @ 150 km/h (42.9 lbf @ 150 km/h)
755.0 N @ 150 km/h (169.7 lbf @ 150 km/h)
433.0 N @ 150 km/h (97.3 lbf @ 150 km/h)
241 km/h (150 mph)

Packaging and Weights

Width, packed	599 mm 23.583 in
Depth, packed	349 mm 13.74 in
Length, packed	1989 mm 78.307 in

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Weight, gross

50.1 kg | 110.451 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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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

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