

10-port sector antenna, 2x 698–896, 4x 1695–2200 MHz and 4x 3100-4200, 45° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

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	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male

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Input Voltage	10-30 Vdc
Internal RET	Low band (1) Mid band (1)
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	1220 mm 48.032 in
Net Weight, without mounting kit	26.5 kg 58.422 lb

Array Layout

			Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
			R1	698-896	1-2	1	CPxxxxxxxxxxxxR1
	P2	B1	1695-2200	3-4	2	CD	
		B2	1695-2200	5-6	2	CPxxxxxxxxxxxxXB1	
			P1	3100-4200	7-8	n/a	n/a
			P2	3100-4200	9-10	n/a	n/a

Left Right Bottom

Ρ1

R1

B2

Β1

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz 3100 – 4200 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-188	0 1850-1990	0 1920-220	0 3100-355	0 3550-370	0 3700-4200
Gain, dBi	15.6	16.5	18	18.7	19.1	16.9	17.3	16.7
Beamwidth, Horizontal, degrees	46	41	46	44	41	48	43	44
Beamwidth, Vertical, degrees	18.7	16.7	7.7	7.2	6.8	9.7	9	8.4
Beam Tilt, degrees	2-18	2-18	1-9	1-9	1-9	4	4	4
USLS (First Lobe), dB	15	16	15	15	14	18	17	15
Front-to-Back Ratio at 180°, dB	29	32	33	33	33	33	34	32
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	28	28	28	28	28	28
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	1.5 14.0

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-140	-140	-140
Input Power per Port at 50°C, maximum, watts	250	250	250	250	250	100	100	100

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-188	0 1850-199	0 1920-220	0 3100-355	0 3550-370	0 3700-4200
Gain by all Beam Tilts, average, dBi	15.3	16.2	17.6	18.3	18.7	16.2	17	16.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.8	±0.5	±0.6	±0.6	±0.5	±0.6
Beamwidth, Horizontal Tolerance, degrees	±2.2	±2.1	±3	±2.1	±2.2	±6.7	±2.5	±3.4
Beamwidth, Vertical Tolerance, degrees	±1.1	±1.1	±0.5	±0.3	±0.5	±0.7	±0.4	±0.6
USLS, beampeak to 20° above beampeak, dB			14	14	14	16	16	14
Front-to-Back Total Power at 180° ± 30°, dB	22	23	24	26	27	26	27	23
CPR at Boresight, dB	18	19	16	18	17	14	15	16
CPR at Sector, dB	10	11	3	3	4	6	7	6

Mechanical Specifications

Wind Loading @ Velocity, frontal	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	135.0 N @ 150 km/h (30.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	595.0 N @ 150 km/h (133.8 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	1393 mm 54.843 in
Weight, gross	37.6 kg 82.894 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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ROHS

UK-ROHS

Compliant/Exempted Compliant/Exempted



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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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

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