

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 TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | 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

COMMSCOPE®

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

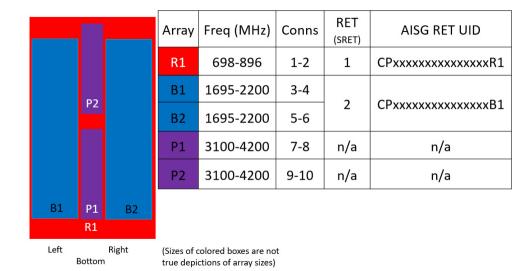
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 2437 mm | 95.945 in

 Net Weight, without mounting kit
 41.5 kg | 91.492 lb

Array Layout



Port Configuration



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

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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	18	18.6	19.3	19.7	20.3	16.9	17.4	17.4
Beamwidth, Horizontal, degrees	46	41	45	43	41	49	42	40
Beamwidth, Vertical, degrees	9.3	8.2	5.7	5.4	5.1	9.7	9	8.4
Beam Tilt, degrees	0-10	0-10	0-8	0-8	0-8	4	4	4
USLS (First Lobe), dB	18	22	15	16	16	18	17	13
Front-to-Back Ratio at 180°, dB	32	34	33	34	36	32	33	29
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,	250	250	250	250	250	100	100	100
maximum, watts								

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	17.6	18.4	18.9	19.5	19.8	16.4	17.1	17
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.3	±0.8	±0.4	±0.5	±0.6	±0.5	±0.6
Beamwidth, Horizontal Tolerance, degrees	±2	±1.7	±2.8	±1.9	±2.2	±7	±3.6	±3.2
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.3	±0.3	±0.2	±0.4	±0.9	±0.8	±0.8
USLS, beampeak to 20° above beampeak, dB	16	15	15	15	15	17	16	13
Front-to-Back Total Power at 180° ± 30°, dB	24	25	24	26	27	26	25	20
CPR at Boresight, dB	20	21	19	19	17	14	16	17
CPR at Sector, dB	13	10	3	3	4	5	8	5

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 315.0 N @ 150 km/h (70.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,304.0 N @ 150 km/h (293.2 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
 2610 mm | 102.756 in

 Weight, gross
 61.2 kg | 134.923 lb

Regulatory Compliance/Certifications

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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.

BSAMNT-M – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

