

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 45° HPBW, 3x RET

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Three internal RETs for independent tilt on all three bands
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

OBSOLETE

This product was discontinued on: March 30, 2024

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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 4

RF Connector Quantity, mid band 0

RF Connector Quantity, low band

RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

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Internal RET High band (2) | Low band (1)

Power Consumption, idle state, maximum 2 W

Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1220 mm | 48.032 in

Net Weight, without mounting kit 22.9 kg | 50.486 lb

Array Layout



Bottom

Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	1695-2360	3-4	2	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y2	1695-2360	5-6	3	ANxxxxxxxxxxxxxx.3

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	15.5	16.2	18.5	19.1	19.4	20
Beamwidth, Horizontal,	48	43	44	43.2	44	39.2

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degrees						
Beamwidth, Vertical, degrees	18.5	16.8	7.9	7.3	6.9	6
Beam Tilt, degrees	2-18	2-18	1-9	1-9	1-9	1-9
USLS (First Lobe), dB	16	17	16	16	15	13
Front-to-Back Ratio at 180°, dB	33	34	37	36	38	39
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.64 m² | 6.889 ft² Effective Projective Area (EPA), lateral 0.13 m² | 1.399 ft²

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 595.0 N @ 150 km/h (133.8 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
 526 mm | 20.709 in

 Depth, packed
 283 mm | 11.142 in

 Length, packed
 1387 mm | 54.606 in

 Weight, gross
 32.3 kg | 71.209 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted

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UK-ROHS

Compliant/Exempted



Included Products

BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

