

8-port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, 45° HPBW, 4x RET

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF 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 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid band 4

RF Connector Quantity, low band 4

RF Connector Quantity, total 8

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET Low band (2) | Mid band (2)

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Page 1 of 4

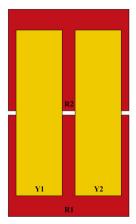
Width 457 mm | 17.992 in

Depth 178 mm | 7.008 in

Length 1848 mm | 72.756 in

Net Weight, antenna only 34.5 kg | 76.059 lb

Array Layout



ArrayID	Frequency(MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
R2	698-896	3 - 4	2	AISG1	CPxxxxxxxxxxxxxR2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxY2

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

Port Configuration



Electrical Specifications



Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	14	14.9	19.4	20	20.5	21
Beamwidth, Horizontal, degrees	49	42	45	43	41	38
Beamwidth, Vertical, degrees	24.4	21.6	5.9	5.5	5.1	4.6
Beam Tilt, degrees	2-18	2-18	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	14	15	15	17
Front-to-Back Ratio at 180°, dB	32	34	35	37	39	38
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 at 50°C, maximum, watts	300	300	300	300	300	250

Electrical Specifications, BASTA

' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	,					
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	13.7	14.7	18.9	19.7	20.1	20.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.5	±0.4	±0.3
Beamwidth, Horizontal Tolerance, degrees	±2	±3	±3	±2	±2	±2
Beamwidth, Vertical Tolerance, degrees	±1.6	±1.8	±0.4	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB			14	15	15	16
Front-to-Back Total Power at 180° ± 30°. dB	24	24	27	31	32	30

Page 3 of 4



CPR at Boresight, dB 23 23 19 20 20 21

Mechanical Specifications

Effective Projective Area (EPA), frontal 1.01 m² | 10.872 ft² Effective Projective Area (EPA), lateral 0.21 m² | 2.26 ft²

 Wind Loading @ Velocity, frontal
 1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 222.0 N @ 150 km/h (49.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 946.0 N @ 150 km/h (212.7 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
 2015 mm | 79.331 in

 Weight, gross
 47.4 kg | 104.499 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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



Included Products

BSAMNT-3F – 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

COMMSCOPE®