

12-port sector antenna, 2x 698–803, 2x 824-894 and 8x 1695–2360 MHz, 65° HPBW, 4x RETs and low bands have diplexers.

- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- One RET for 700MHz, one RET for 850MHz, and one RET for each side-by-side pair of high bands to ensure same tilt level for 4x Rx or 4x MIMO
- 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

Color Light Gray (RAL 7035)

Grounding Type RF connector 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 Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

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 High band (2) | Low band (2)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

COMMSC PE°

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

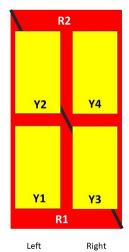
Depth

Width 350 mm | 13.78 in

Length 2438 mm | 95.984 in

Net Weight, without mounting kit 37.9 kg | 83.555 lb

Array Layout



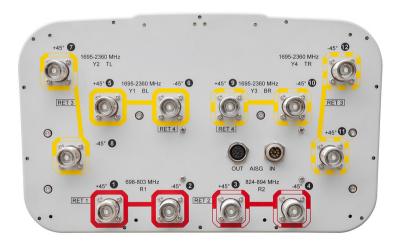
Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID	
R1	698-803	1-2	1	CPxxxxxxxxxxxxxxxxmm.1	
R2	824-894	3-4	2	CPxxxxxxxxxxxxxxxxmm.2	
Y4	1695-2360	11-12	3	3 CPxxxxxxxxxxxxxx	CD
Y2	1695-2360	7-8			CPXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Y3	1695-2360	9-10	4	60	
Y1	1695-2360	5-6		CPxxxxxxxxxxxxxxxxmm.4	

208 mm | 8.189 in

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 803 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

'						
Frequency Band, MHz	698-803	824-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	15.9	16.3	16.8	17.2	17.4	18
Beamwidth, Horizontal, degrees	67	65	63	62	62	63
Beamwidth, Vertical, degrees	9.6	8.5	8	7.4	6.9	6.2
Beam Tilt, degrees	0-11	0-11	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	16	19	18	18	18
Front-to-Back Ratio at 180°, dB	32	36	31	35	36	37
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	300	300	250	250	250	200
maximum, watts						

Electrical Specifications, BASTA

Frequency Band, MHz	698-803	824-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.7	16.1	16.3	16.8	17	17.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.7	±0.5	±0.5	±0.5
Gain by Beam Tilt, average, dBi	0 ° 15.5 5 ° 15.7 11 ° 15.7	0° 15.8 5° 16.2 11° 16.1	2° 16.2 7° 16.4 12° 16.1	2° 16.7 7° 16.9 12° 16.6	2° 16.9 7° 17.1 12° 16.9	2° 17.3 7° 17.7 12° 17.3
Beamwidth, Horizontal Tolerance, degrees	±1.5	±1	±3.5	±2.7	±1.9	±3.9
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.5	±0.4	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	17	17	14	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	26	25	27	29	27	28
CPR at Boresight, dB	21	22	17	18	20	21
CPR at Sector, dB	11	12	11	11	11	8

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.4 m ² 4.306 ft ²
Effective Projective Area (EPA), lateral	$0.34 m^2 \mid 3.66 ft^2$

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed	456 mm 17.953 in
Depth, packed	357 mm 14.055 in
Length, packed	2585 mm 101.772 in

COMMSCOPE®

Weight, gross 50.2 kg | 110.672 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-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

