

24-Port antenna, 8 x 698-896 MHz, $16 \times 1710-2400$ MHz, 33° HPBW, $6 \times RETs$, $4 \times SBTs$, 6 ft Length

- Provides 4 ports per beam for low band and 8 ports per beam for mid band
- Twin beam patterns are optimized for minimum beam crossover providing for improved 4G and 5G data throughput

General Specifications

Antenna Type Multibeam

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, mid band

RF Connector Quantity, low band

RF Connector Quantity, total

24

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 4 female | 4 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 17 | Port 5 | Port 9

Internal RET Low band (2) | Mid band (4)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

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Dimensions

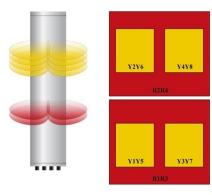
Width 640 mm | 25.197 in

Depth 235 mm | 9.252 in

Length 1828 mm | 71.969 in

Net Weight, antenna only 59.5 kg | 131.175 lb

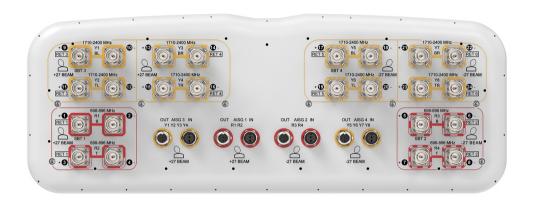
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID	
	698-896	1 - 2		11554	1			
	698-896	3 - 4	1	AISG1	1	1	CPxxxxxxxxxxxxxxXR1	
	698-896	5 - 6		AISG2	5	2	CPxxxxxxxxxxxxx	
R4	698-896	7 - 8	2					
Y1	1710-2400	9 - 10		AISG3	9	3	CPxxxxxxxxxxxx	
Y2	1710-2400	11 - 12	3					
Y3	1710-2400	13 - 14		AISG3				
Y4	1710-2400	15 - 16	4				CPxxxxxxxxxxxxx	
Y5	1710-2400	17 - 18		AISG4	17	4		
Y6	1710-2400	19 - 20	5				CPxxxxxxxxxxxxxx	
Y7	1710-2400	21 - 22		11554				
Y8	1710-2400	23 - 24	6	6 AISG4			CPxxxxxxxxxxxxxxx	

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2400 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 2,000 W @ 50 °C

Electrical Specifications

	R1-R4	R1-R4	Y1-Y8	Y1-Y8	Y1-Y8	Y1-Y8
Frequency Band, MHz	698-806	824-896	1710-1880	1850-1990	1920-2200	2300-2400
RF Port	1-8	1-8	9-24	9-24	9-24	9-24
Gain, dBi	14	14.6	16.2	17.1	17.9	18.4
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	41	37	34	33	30	28
Beamwidth, Vertical, degrees	25	22.4	10.2	9.3	8.7	7.7
Beam Tilt, degrees	2-20	2-20	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	18	15	16	16	16

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Front-to-Back Ratio at 180°, dB	27	30	31	34	32	32
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	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	824-896	1710-1880	1850-1990	1920-2200	2300-2400
Gain by all Beam Tilts, average, dBi	13.5	14.3	15.4	16.6	17.3	17.8
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±1.1	±0.7	±0.8	±0.9
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±3	±3	±2	±2
Beamwidth, Vertical Tolerance, degrees	±1.7	±1	±1	±0.6	±0.7	±0.5
Front-to-Back Total Power at 180° ± 30°, dB	23	25	25	28	28	27
CPR at Boresight, dB	18	18	16	16	17	14

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 911.0 N @ 150 km/h (204.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 446.0 N @ 150 km/h (100.3 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 80 kg | 176.37 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-4 – 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-M4 – 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

