

8-port multibeam antenna, 8x 1695-2690 MHz, 4x 33° HPBW, 4xRET

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs 3 antennas required for 6 sector configurations
- Utilizes RET-PMOD-A20-4A24

General Specifications

Antenna Type Multibeam

Band Single band

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 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, total 8

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 2x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out:

Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7:

DC_Return

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc
Internal RET High band (4)

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

Protocol 3GPP/AISG 2.0 (Single RET)



Dimensions

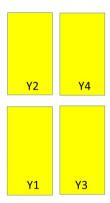
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 2499 mm | 98.386 in

Net Weight, without mounting kit 30.4 kg | 67.02 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	1695-2690	1-2	1	CPxxxxxxxxxxxxXY1
Y2	1695-2690	3-4	2	CPxxxxxxxxxxxxY2
Y3	1695-2690	5-6	3	CPxxxxxxxxxxxxXY3
Y4	1695-2690	7-8	4	CPxxxxxxxxxxxx4

Bottom

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz

Polarization ±45°

Total Input Power, maximum 1,200 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Gain, dBi	19	19.4	19.6	20	20.1
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	40	39	37	36	31
Beamwidth, Vertical, degrees	7.9	7.4	7	6.2	5.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
Horizontal Sidelobe, dB	18	18	18	18	17
USLS (First Lobe), dB	16	16	16	17	20
Front-to-Back Ratio at 180°, dB	31	36	38	36	35
Isolation, Cross Polarization,	30	30	30	30	30

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dB					
Isolation, Inter-band, dB	30	30	30	30	30
Isolation, Beam to Beam, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Gain by all Beam Tilts, average, dBi	18.6	19	19.3	19.5	19.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.5	±0.4
Gain by Beam Tilt, average, dBi	2 ° 17.7 7 ° 17.9 12 ° 17.7	2° 18.3 7° 18.7 12° 18.5	2° 18.6 7° 19.0 12° 18.7	2° 19.1 7° 19.5 12° 19.3	2° 19.4 7° 19.9 12° 19.4
Beamwidth, Horizontal Tolerance, degrees	±2.6	±1.8	±2.3	±1.5	±1.8
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	16	17	20
Front-to-Back Total Power at 180° ± 30°, dB	24	26	27	29	28
CPR at Boresight, dB	21	24	19	21	19
CPR at 10 dB Horizontal Beamwidth, dB	11	16	16	14	10

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 525.0 N @ 150 km/h (118.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 386.0 N @ 150 km/h (86.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 898.0 N @ 150 km/h (201.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 540.0 N @ 150 km/h (121.4 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 505 mm | 19.882 in

 Depth, packed
 386 mm | 15.197 in

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Length, packed 2631 mm | 103.583 in Weight, gross 44.4 kg | 97.885 lb

Regulatory Compliance/Certifications

Classification **Agency**

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

Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. BSAMNT-3 Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

