



12-port sector antenna, 4x 617-894 and 8x 1695-2690 MHz, 65° HPBW, 3x RET

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
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, high band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

Remote Electrical Tilt (RET) Information

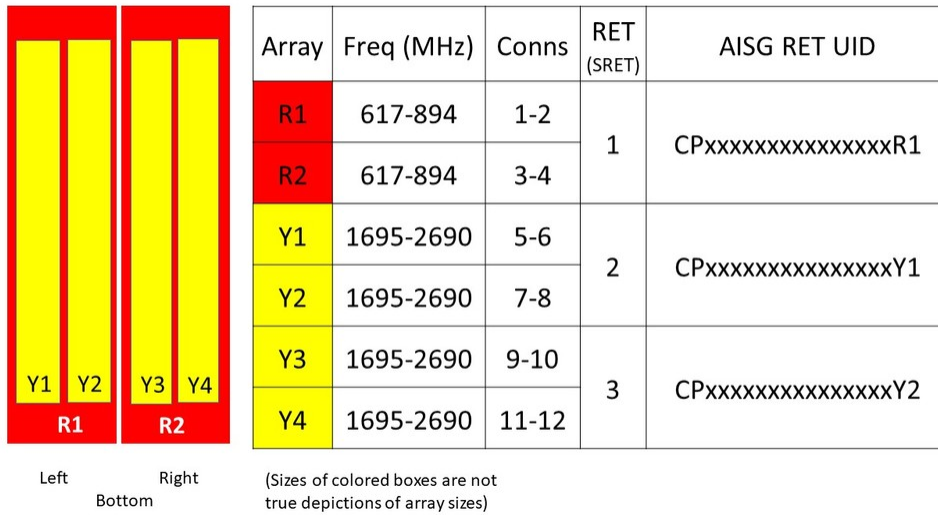
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10-30 Vdc
Internal RET	High band (2) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	640 mm 25.197 in
Depth	235 mm 9.252 in

Length 1224 mm | 48.189 in
Net Weight, without mounting kit 36 kg | 79.366 lb

Array Layout



Electrical Specifications

Impedance 50 ohm
Operating Frequency Band 1695 – 2690 MHz | 617 – 894 MHz
Polarization ±45°
Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617–698	698–806	806–894	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	12.6	13	13.1	16.4	16.9	17.6	17.6	18.1
Beamwidth, Horizontal, degrees	67	65	63	62	61	60	59	58
Beamwidth, Vertical, degrees	21.9	19.4	19.1	7.7	7.3	6.7	5.9	5.6
Beam Tilt, degrees	5–22	5–22	5–18	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	13	17	15	15	17	19	18	18
Front-to-Back Ratio at 180°, dB	26	31	28	31	29	27	27	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25

Isolation, Inter-band, dB	25	25	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	12.1	12.5	12.5	15.9	16.5	16.8	17.1	17.6
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.7	±0.7	±0.7	±0.5	±0.8	±0.6	±0.6
Gain by Beam Tilt, average, dBi	5° 12.4 14° 12.1 22° 11.8	5° 12.8 14° 12.5 22° 11.9	5° 12.9 12° 12.6 18° 12.2	2° 16.1 7° 15.9 12° 15.6	2° 16.6 7° 16.5 12° 16.2	2° 16.8 7° 16.9 12° 16.7	2° 17.2 7° 17.3 12° 16.8	2° 17.7 7° 17.7 12° 17.1
Beamwidth, Horizontal Tolerance, degrees	±4.5	±5.7	±7.7	±4.6	±6.2	±7.3	±6.8	±8.5
Beamwidth, Vertical Tolerance, degrees	±2.3	±1.8	±3.6	±0.5	±0.5	±0.7	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB				13	15	16	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	20	20	25	24	23	24	23
CPR at Boresight, dB	16	16	16	18	22	19	16	17
CPR at Sector, dB	7	8	7	7	8	5	6	7

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.47 m ² 5.059 ft ²
Effective Projective Area (EPA), lateral	0.15 m ² 1.615 ft ²
Wind Loading @ Velocity, frontal	505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	688.0 N @ 150 km/h (154.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	752 mm 29.606 in
Depth, packed	387 mm 15.236 in

Length, packed

1379 mm | 54.291 in

Weight, gross

53 kg | 116.845 lb

Regulatory Compliance/Certifications

Agency**Classification**

CHINA-ROHS

Above maximum concentration value

ROHS

Compliant/Exempted



Included Products

BSAMNT-3

- 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.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance