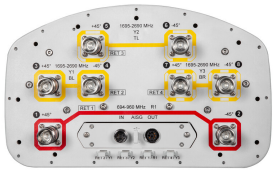
8P-2L6M-D4-V5



8-port sector antenna, 2x 694–960 and 6x 1695–2690 MHz, 65° HPBW, 4x RET with tilt indicators

- 4 Independent Arrays (1 Low band and 3 high bands) in a single radome housing
- Optimized radome design leading to market leading wind load performance
- Antenna with retractable tilt scale indicators and integrated pluggable RET
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
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	6
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	2
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 (3) | Low band (1)
Power Consumption, active state, maximum	10 W

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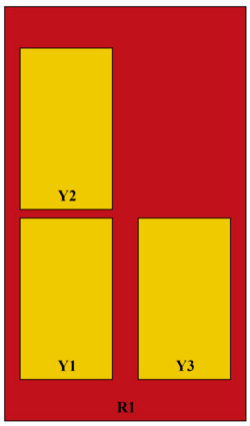
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	301 mm | 11.85 in
Depth	181 mm | 7.126 in
Length	2688 mm | 105.827 in
Net Weight, without mounting kit	22.3 kg | 49.163 lb

Array Layout

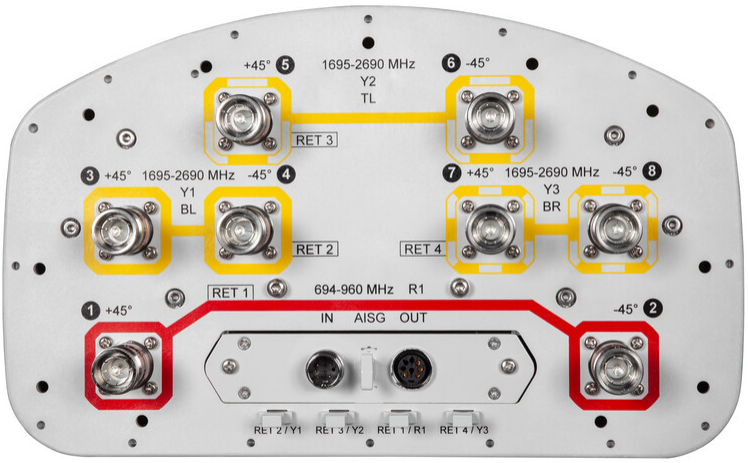


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxY3

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

Port Configuration

8P-2L6M-D4-V5



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W

Electrical Specifications

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–1920**	**1920–2200**	**2300–2500**	**2500–2690**
Gain, dBi	16.5	16.7	16.7	17.7	17.9	17.5	17.7
Beamwidth, Horizontal, degrees	70	67	64	65	66	66	63
Beamwidth, Vertical, degrees	8.3	7.5	7	7.2	6.6	5.8	5.4
Beam Tilt, degrees	0–10	0–10	0–10	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	18	18	17	19	20	18
Front-to-Back Ratio at 180°, dB	30	33	33	36	35	31	33
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	30	31	29	31	30	28	28
Isolation, Cross Polarization, dB	27	27	27	27	27	27	27

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Isolation, Inter-band, dB	27	27	27	27	27	27	27
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	500	500	500	300	300	250	250

Mechanical Specifications

Wind Loading @ Velocity, frontal	441.0 N @ 150 km/h (99.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	374.0 N @ 150 km/h (84.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	746.0 N @ 150 km/h (167.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	448.0 N @ 150 km/h (100.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	411 mm | 16.181 in
Depth, packed	324 mm | 12.756 in
Length, packed	2814 mm | 110.787 in
Weight, gross	34.9 kg | 76.941 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant

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