## 8P-2L6M-D4-V5



# 8-port sector antenna, 2x 694-960 and 6x 1695-2690 MHz, $65^{\circ}$ 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

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, 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 Power Consumption, idle state, maximum 2 W

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**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

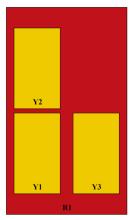
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 2688 mm | 105.827 in

Net Weight, without mounting kit 22.3 kg | 49.163 lb

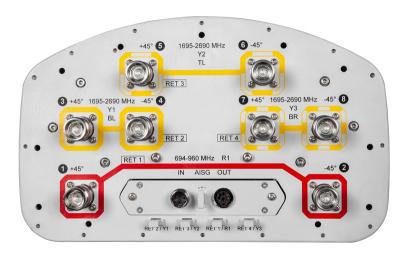
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxXR1
Y1	1695-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxXY3

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

## Port Configuration



## **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

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

#### 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

