

# 8P-8M-A4-V4



## 8-port sector antenna, 8x 1695-2690MHz, 65° HPBW, 4x RET

- Utilizes RET-PMOD-A20-4A29
- State-of-the-art wideband technology providing excellent RF performance
- Optimized radome design leading to market leading wind load performance
- Antenna with integrated pluggable RET and retractable tilt scale indicators

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	8
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information

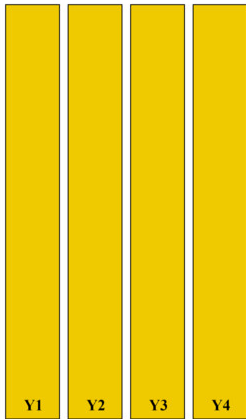
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	2x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (4)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

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## Dimensions

<b>Width</b>	497 mm   19.567 in
<b>Depth</b>	127 mm   5 in
<b>Length</b>	1397 mm   55 in
<b>Net Weight, without mounting kit</b>	21.5 kg   47.399 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
Y1	1695-2690	1 - 2	1	CPXXXXXXXXXXXXY1
Y2	1695-2690	3 - 4	2	CPXXXXXXXXXXXXY2
Y3	1695-2690	5 - 6	3	CPXXXXXXXXXXXXY3
Y4	1695-2690	7 - 8	4	CPXXXXXXXXXXXXY4

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

## Port Configuration



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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	800 W

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1920</b>	<b>1920–2200</b>	<b>2300–2490</b>	<b>2490–2690</b>
<b>RF Port</b>	1-8	1-8	1-8	1-8	1-8
<b>Gain, dBi</b>	17.4	17.7	18.1	18.7	18.5
<b>Beamwidth, Horizontal, degrees</b>	68	65	62	60	59
<b>Beamwidth, Vertical, degrees</b>	7	6.6	6.2	5.3	5
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	18	20	18	17	17
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	31	33	31	29	29
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	28	28
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	200	200	200	200	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1920</b>	<b>1920–2200</b>	<b>2300–2490</b>	<b>2490–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	17	17.6	17.9	18.3	18.1
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.2	±0.3	±0.4	±0.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±4.0	±3	±3	±3	±4.0
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.4	±0.2	±0.4	±0.3	±0.2
<b>CPR at Boresight, dB</b>	22	25	24	22	20
<b>CPR at Sector, dB</b>	10	11	12	7	4

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## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	620.0 N @ 150 km/h (139.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	140.0 N @ 150 km/h (31.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	750.0 N @ 150 km/h (168.6 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h   149.75 mph

## Packaging and Weights

<b>Width, packed</b>	592 mm   23.307 in
<b>Depth, packed</b>	247 mm   9.724 in
<b>Length, packed</b>	1597 mm   62.874 in
<b>Weight, gross</b>	31 kg   68.343 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

BSAMNT-B95-03	–	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.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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