

# 12-port sector antenna, 4x 698–896 and 8x 1695–2690 MHz, 45° HPBW, 6x RET

- Independent tilt for all arrays
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on Mid band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

#### 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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	0
RF Connector Quantity, mid 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	Low band (2)   Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

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#### Dimensions

Width	457 mm   17.992 in
Depth	178 mm   7.008 in
Length	1399 mm   55.079 in
Net Weight, without mounting kit	27.2 kg   59.966 lb

#### Array Layout



	Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
	R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
	R2	698-896	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
	Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxXXXXXXXXY1
¥4	Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxXX2
	Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX
	¥4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxXXXXY4

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

### Port Configuration





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#### Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

#### **Electrical Specifications**

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2500	2300-2690
Gain, dBi	12.6	13.5	15.4	16	16.7	17.1	17.1
Beamwidth, Horizontal, degrees	49	45	44	43	40	34	34
Beamwidth, Vertical, degrees	36	31	15	14	13	11	11
Beam Tilt, degrees	2-18	2-18	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	17	19	17	17	17	16
Front-to-Back Ratio at 180°, dB	33	34	35	35	33	32	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200	200

#### Mechanical Specifications

Wind Loading @ Velocity, frontal	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	157.0 N @ 150 km/h (35.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

#### Packaging and Weights

Width, packed	563 mm   22.165 in
Depth, packed	355 mm   13.976 in
Length, packed	1572 mm   61.89 in

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## NNV4-45A-R6

#### Weight, gross

38.8 kg | 85.539 lb

#### Regulatory Compliance/Certifications

Agency	Classification			
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system			
Included Produc	ts			
BSAMNT-3	<ul> <li>Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.</li> <li>Kit contains one scissor top bracket set and one bottom bracket set.</li> </ul>			
* Footnotes				

Performance Note Severe environmental conditions may degrade optimum performance

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