

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz,  $45^{\circ}$  HPBW, 3x RET

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Three internal RETs for independent tilt on all three bands
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

#### **OBSOLETE**

This product was discontinued on: March 30, 2024

#### 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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

**Radome Material** Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 7-16 DIN Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 4

RF Connector Quantity, mid band 0

RF Connector Quantity, low band 2
RF Connector Quantity, total 6

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

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Internal RET High band (2) | Low band (1)

 ${\bf Power~Consumption, idle~state, maximum} \qquad \qquad 2~{\rm W}$ 

Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

#### **Dimensions**

 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1220 mm | 48.032 in

 Net Weight, without mounting kit
 22.9 kg | 50.486 lb

## Array Layout



Bottom

Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	1695-2360	3-4	2	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y2	1695-2360	5-6	3	ANxxxxxxxxxxxxxx.3

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

### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

### **Electrical Specifications**

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	15.5	16.2	18.5	19.1	19.4	20
Beamwidth, Horizontal,	48	43	44	43.2	44	39.2

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degrees						
Beamwidth, Vertical, de	<b>grees</b> 18.5	16.8	7.9	7.3	6.9	6
Beam Tilt, degrees	2-18	2-18	1-9	1-9	1-9	1-9
USLS (First Lobe), dB	16	17	16	16	15	13
Front-to-Back Ratio at 1 dB	<b>80°,</b> 33	34	37	36	38	39
Isolation, Cross Polariza dB	<b>etion,</b> 25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W	<b>, dBc</b> -153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300

#### Mechanical Specifications

Effective Projective Area (EPA), frontal	0.64 m <sup>2</sup>   6.889 ft <sup>2</sup>
Effective Projective Area (EPA), lateral	0.13 m <sup>2</sup>   1.399 ft <sup>2</sup>

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 595.0 N @ 150 km/h (133.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 595.0 N @ 150 km/h (133.8 lbf @ 150 km/h)

 Wind Speed, maximum
 241 km/h (150 mph)

#### Packaging and Weights

 Width, packed
 526 mm | 20.709 in

 Depth, packed
 283 mm | 11.142 in

 Length, packed
 1387 mm | 54.606 in

 Weight, gross
 32.3 kg | 71.209 lb

#### Regulatory Compliance/Certifications

CHINA-ROHS  Above maximum concentration value  ISO 9001:2015  Designed, manufactured and/or distributed under this quality management  REACH-SVHC  Compliant as per SVHC revision on www.andrew.com/ProductCompliance	Agency	cation
, ,	CHINA-ROHS	naximum concentration value
REACH-SVHC Compliant as per SVHC revision on www.andrew.com/ProductCompliance	ISO 9001:2015	d, manufactured and/or distributed under this quality management system
	REACH-SVHC	ant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS Compliant/Exempted	ROHS	nnt/Exempted



**UK-ROHS** 

Compliant/Exempted



#### Included Products

BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical

\* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

tilt applications.

