

10-Port Antenna, 4x 1695–2200 (HB1), 4x 2490-2690 (HB2) and 2x 1695-2690 (HB3) MHz, 65° horizontal beamwidth, 3x Internal RET

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- One RET for H-bands, one RET for T-bands, one RET for V-band
- Excellent for 4x MIMO applications and maximizing capacity
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands

#### **OBSOLETE**

This product was discontinued on: March 30, 2024

#### General Specifications

Antenna Type Sector

**Band** Single band

Color Light Gray (RAL 7035)

**Grounding Type**RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

**RF Connector Interface** 4.3-10 Female

RF Connector Location Bottom
RF Connector Quantity, high band 10
RF Connector Quantity, total 10

#### Remote Electrical Tilt (RET) Information

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

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

Internal RET High band (3)

Power Consumption, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 10 W



Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

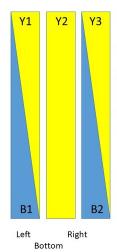
**Width** 504 mm | 19.843 in

**Depth** 118 mm | 4.646 in

**Length** 1322 mm | 52.047 in

Net Weight, without mounting kit 21 kg | 46.297 lb

#### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
B1	1695-2200	1-2	1	CPxxxxxxxxxxxxxx1
B2	1695-2200	9-10	1	CPXXXXXXXXXXXXX
Y2	1695-2690	5-6	2	CPxxxxxxxxxxxxxx2
Y1	2490-2690	3-4	3	CPxxxxxxxxxxxxxx3
Y3	2490-2690	7-8	3	CPXXXXXXXXXXXXXXXXX

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

### Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2180 MHz | 1695 – 2690 MHz | 2490 – 2690 MHz

Polarization ±45°

**Total Input Power, maximum** 500 W @ 50 °C

### **Electrical Specifications**

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	HB1	HB1	HB2	HB3	HB3	НВ3
Frequency Band, MHz	1695-1880	1920-2200	2490-2690	1695-1920	1920-2180	2490-2690
Gain, dBi	16.7	17.2	17.2	17.2	17.7	17.5
Beamwidth, Horizontal, degrees	63	63	58	62	65	60
Beamwidth, Vertical, degrees	7.5	6.6	5.5	7.4	6.5	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	20	21	17	17	19
Front-to-Back Ratio at 180°, dB	30	30	33	33	32	33
Isolation, Cross Polarization, dB	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28

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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, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	300	300	250

### Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1920-2200	2490-2690	1695-1920	1920-2180	2490-2690
Gain by all Beam Tilts, average, dBi	16.3	16.9	16.8	16.8	17.4	17.2
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.6	±0.6	±0.4	±0.5
Gain by Beam Tilt, average, dBi	2° 16.1 7° 16.4 12° 16.3	2° 16.6 7° 17.1 12° 16.8	2° 16.4 7° 17.1 12° 16.5	2° 16.7 7° 16.9 12° 16.8	2° 17.1 7° 17.6 12° 17.2	2 °   16.8 7 °   17.4 12 °   17.0
Beamwidth, Horizontal Tolerance, degrees	±3.7	±2.6	±3.7	±2.6	±2.1	±4.0
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.3	±0.5	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	14	15	17	17	16	12
Front-to-Back Total Power at 180° ± 30°, dB	24	25	24	29	29	26
CPR at Boresight, dB	22	21	19	21	22	19
CPR at Sector, dB	15	10	7	13	10	8

#### Mechanical Specifications

Mechanical Tilt Range 0°-19°

 Wind Loading @ Velocity, frontal
 855.0 N @ 150 km/h (192.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 141.0 N @ 150 km/h (31.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 872.0 N @ 150 km/h (196.0 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 613 mm | 24.134 in

 Depth, packed
 226 mm | 8.898 in

 Length, packed
 1450 mm | 57.087 in

 Weight, gross
 29.4 kg | 64.816 lb

Regulatory Compliance/Certifications

**COMMSCOPE®** 

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

