

# 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

### This product will be discontinued on: March 30, 2024

### **General Specifications**

BandSingle bandColorLight Gray (RAL 7035)Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardRF Connector InterfaceA3-10 FemaleRF Connector Quantity, high band10RF Connector Quantity, total10	Antenna Type	Sector
Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band10	Band	Single band
Performance Notemounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band10	Color	Light Gray (RAL 7035)
Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band10	Grounding Type	, .
Radiator MaterialLow loss circuit boardRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band10	Performance Note	Outdoor usage
RF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band10	Radome Material	Fiberglass, UV resistant
RF Connector LocationBottomRF Connector Quantity, high band10	Radiator Material	Low loss circuit board
RF Connector Quantity, high band 10	RF Connector Interface	4.3-10 Female
	RF Connector Location	Bottom
RF Connector Quantity, total 10	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)

Page 1 of 5

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 13, 2023



### 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

¥1	¥2	¥3	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
			B1	1695-2200	1-2	1	CD: a se
			B2	1695-2200	9-10	1	CPxxxxxxxxxxxxxxxx1
			Y2	1695-2690	5-6	2	CPxxxxxxxxxxxxxx2
			Y1	2490-2690	3-4	3	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
			Y3	2490-2690	7-8	5	

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

## Port Configuration

Right

**B2** 

B1

Left

Bottom

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 13, 2023

COMMSCOPE®



### **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**

	HB1	HB1	HB2	HB3	HB3	HB3
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

Page 3 of 5

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 13, 2023



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

Page 4 of 5

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 13, 2023

**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

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

Page 5 of 5

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 13, 2023

