6-port sector antenna, 6x 1695–2690 MHz, 65°HPBW, 3x 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
- Antenna with integrated pluggable RET
- Conforms to RoHS 2011/65/EU
- With Net Weight ≤ 16 kg

General Specifications

Antenna Type Sector

Band Single band

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid band 6
RF Connector Quantity, total 6

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2B

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

RET Interface, quantity 1 female | 1 male

Input Voltage10-30 VdcInternal RETMid band (3)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

COMMSCOPE®

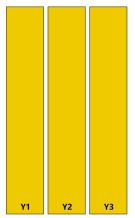
Width 377 mm | 14.843 in

Depth 87 mm | 3.425 in

Length 1397 mm | 55 in

Net Weight, antenna only 16 kg | 35.274 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID	
Y1	1695-2690	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxY1	
Y2	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxY2	
Y3	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxXY3	

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

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Operating Frequency Band 1695 – 2690 MHz

Polarization ±45°

Total Input Power, maximum 600 W

Electrical Specifications

	Y1-Y3	Y1-Y3	Y1-Y3	Y1-Y3	Y1-Y3
Frequency Band, MHz	1695-1880	1850-1920	1920-2200	2300-2500	2500-2690
RF Port	1-6	1-6	1-6	1-6	1-6
Gain, dBi	16.3	16.5	16.8	17	17.2
Beamwidth, Horizontal, degrees	65	64	61	59	56
Beamwidth, Vertical, degrees	7.2	7	6.4	5.5	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Total Power at 180° ± 30°, dB	23	23	23	23	23
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1850-1920	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	16	16.2	16.5	16.7	16.9
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.4	±0.8	±0.9
Beamwidth, Horizontal Tolerance, degrees	±5	±2	±4	±3	±5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.6	±0.5	±0.4
CPR at Boresight, dB	24	24	24	24	24

Mechanical Specifications

Mechanical Tilt Range 0°-10°

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Wind Loading @ Velocity, frontal 524.0 N @ 150 km/h (117.8 lbf @ 150 km/h)

 $\textbf{Wind Loading @ Velocity, lateral} \\ 58.0 \ N \ @ \ 150 \ km/h \ (13.0 \ lbf \ @ \ 150 \ km/h)$

Wind Loading @ Velocity, rear 482.0 N @ 150 km/h (108.4 lbf @ 150 km/h)

Wind Speed, maximum 200 km/h (124 mph)

Packaging and Weights

 Width, packed
 472 mm | 18.583 in

 Depth, packed
 207 mm | 8.15 in

 Length, packed
 1577 mm | 62.087 in

 Weight, gross
 22 kg | 48.502 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

UK-ROHS Compliant



Included Products

BSAMNT-B95-01 – 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

