

6P-6M-A3-V3



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 Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low 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 Voltage	10–30 Vdc
Internal RET	Mid band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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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

Y1

Y2

Y3

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	CPxxxxxxxxxxxxxY3

(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)
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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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