4P-4M-A2-V5

4-port sector antenna, 4x 1695–2690 MHz, 65°HPBW, 2x 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
- Employs state-of-the-art ultra-wideband technology providing excellent RF performance in all bands
- Antenna with integrated pluggable RET and retractable tilt scale indicators

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	Aluminum
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	4
RF Connector Quantity, total	4

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 (2)
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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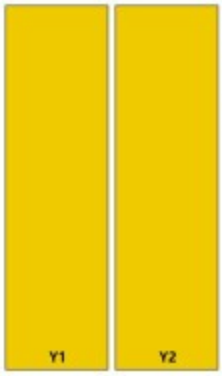
Width	257 mm | 10.118 in
Depth	87 mm | 3.425 in
Length	1377 mm | 54.213 in
Net Weight, antenna only	9.5 kg | 20.944 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxY2

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

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz

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Polarization	±45°
Total Input Power, maximum	450 W

Electrical Specifications

	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**1695–1880**	**1850–1920**	**1920–2200**	**2300–2500**	**2500–2690**
RF Port	1-4	1-4	1-4	1-4	1-4
Gain, dBi	17.3	17.7	18.2	18.5	18.2
Beamwidth, Horizontal, degrees	64	63	62	61	56
Beamwidth, Vertical, degrees	7.1	6.8	6.2	5.3	5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	20	23	22	16	16
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	30	31	29	29	30
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30
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	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	250	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	**1695–1880**	**1850–1920**	**1920–2200**	**2300–2500**	**2500–2690**
Beamwidth, Horizontal Tolerance, degrees	±4	±1	±2	±3	±3
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.2	±0.4	±0.3	±0.2

Mechanical Specifications

Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	75.0 N @ 150 km/h (16.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	237.0 N @ 150 km/h (53.3 lbf @ 150 km/h)

Packaging and Weights

Width, packed	352 mm | 13.858 in

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Depth, packed	207 mm | 8.15 in
Length, packed	1557 mm | 61.299 in
Weight, gross	15.6 kg | 34.392 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
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