

Planar Array Antenna, 2300–2690 MHz, 90° HPBW, 1xIntRET

- For use in beamforming system, includes a calibration port
- Planar array antenna 4 columns
- Single internal RET control for all four antenna arrays
- Optimized for software defined split six sector applications

OBSOLETE

This product was discontinued on: March 30, 2024

General Specifications

Antenna Type Sector

Band Single band

Calibration Connector Interface MQ5

Calibration Connector Quantity

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome Material PVC, UV resistant

Reflector Material Aluminum

RF Connector Interface MQ4 | MQ5

RF Connector Location Bottom

RF Connector Quantity, high band 8

RF Connector Quantity, mid band 0

RF Connector Quantity, low band

RF Connector Quantity, total 8

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v1

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

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

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Page 1 of 7

Internal Bias Tee Cal Port

Internal RET High band (1)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 307 mm | 12.087 in

 Depth
 118 mm | 4.646 in

 Length
 1610 mm | 63.386 in

 Not Weight without requiring life
 15 6 kg | 24.203 lb

Net Weight, without mounting kit 15.6 kg | 34.392 lb TDD Column Spacing 58 mm | 2.283 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	2300-2690	1-8	1	CPxxxxxxxxxxxxxxxY1

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 2300 – 2690 MHz

Polarization ±45°

Total Input Power, maximum 500 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	2300-2400	2496-2690
Gain, dBi	17.3	17.8
Beamwidth, Horizontal, degrees	99	95
Beamwidth, Vertical, degrees	5.1	4.8
Beam Tilt, degrees	2-12	2-12
USLS (First Lobe), dB	16	17
Front-to-Back Ratio at 180°, dB	30	30
Coupling level, Amp, Antenna port to Cal port, dB	26	26
Coupling level, max Amp Δ , Antenna port to Cal port, dB	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB	0.9	0.9
Coupler, max Phase Δ , Antenna port to Cal port, degrees	7	7
CPR at Boresight, dB	20	17
Isolation, Cross Polarization, dB	24	24
Isolation, Co-polarization, dB	18	18
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-130	-130
Input Power per Port at 50°C, maximum, watts	150	150

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-2400	2496-2690
Gain, dBi	18	18.6
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	5.1	4.8
Front-to-Back Total Power at 180° ± 30°, dB	31	32
USLS (First Lobe), dB	16	16

Electrical Specifications, Service Beam



Frequency Band, MHz	2300-2400	2496-2690
Steered 0° Gain, dBi	22.3	22.3
Steered 0° Beamwidth, Horizontal, degrees	27	26
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	33	33
Steered 0° Horizontal Sidelobe, dB	12	11
Steered 30° Gain, dBi	21.6	21.6
Steered 30° Beamwidth, Horizontal, degrees	30	28
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	31	31

Electrical Specifications, Soft Split

2300-2400	2496-2690
20.7	21
35	33
32	32
22	20
	20.7 35 32

Mechanical Specifications

Wind Loading @ Velocity, frontal	586.0 N @ 150 km/h (131.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	123.0 N @ 150 km/h (27.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	709.0 N @ 150 km/h (159.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	413 mm 16.26 in
Depth, packed	257 mm 10.118 in
Length, packed	1740 mm 68.504 in
Weight, gross	25.5 kg 56.218 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted





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



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Agency

UK-ROHS

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Classification

Compliant

CE Compliant with the relevant CE product directives 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

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