

8-port Planar Array Antenna, 3300–3800 MHz, 90° HPBW, 1x RET, with MQ4/MQ5 connectors

- Planar array antenna 4 columns
- Single internal RET control for all four antenna arrays
- Designed for beamforming, includes calibration port
- Optimized for software defined split six sector applications
- Fits in the ANDREW AEKT solution
- Includes MQ4/MQ5 type cluster connector(s)

General Specifications

Antenna Type	Sector
Band	Single band
Calibration Connector Interface	MQ5
Calibration Connector Quantity	2
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	PVC
Radiator Material	Low loss circuit board
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	0
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
Internal RET	High band (1)
Power Consumption, idle state, maximum	1 W

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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	850 mm 33.465 in
Net Weight, without mounting kit	8.8 kg 19.401 lb
TDD Column Spacing	42 mm 1.654 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
P1	3300-3800	1-8	1	CPxxxxxxxxxxxxxxP1

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	3300 - 3800 MHz
Polarization	±45°
Total Input Power, maximum	400 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	15.5	16
Beamwidth, Horizontal, degrees	96	86

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Beamwidth, Vertical, degrees	6.7	6.3	
Beam Tilt, degrees	2-12	2-12	
USLS (First Lobe), dB	20	19	
Front-to-Back Ratio at 180°, dB	29	29	
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	
Isolation, Cross Polarization, dB	25	25	
Isolation, Inter-band, dB	19	19	
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	75	75	

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	16.4	16.4
Beamwidth, Horizontal, degrees	66	65
Beamwidth, Horizontal Tolerance, degrees	±4.0	±4.0
Beamwidth, Vertical, degrees	6.7	6.4
Front-to-Back Total Power at 180° ± 30°, dB	24	23
USLS (First Lobe), dB	20	19

Electrical Specifications, Service Beam

Frequency Band, MHz	3300-3600	3600-3800
Steered 0° Gain, dBi	20.7	21.1
Steered 0° Beamwidth, Horizontal, degrees	25	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	30	30
Steered 0° Horizontal Sidelobe, dB	12	12
Steered 30° Gain, dBi	19.9	20.1
Steered 30° Beamwidth, Horizontal, degrees	28	26

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	19.8	20.2
Beamwidth, Horizontal, degrees	31	29

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CPR at Beampeak, dB	19	18
Front-to-Back Total Power at 180° ± 30°, dB	29	30
Horizontal Sidelobe, dB	18	18
Mechanical Specifications		
Effective Projective Area (EPA), frontal	0.27 m ² 2.906 ft ²	
Effective Projective Area (EPA), lateral	0.05 m² 0.538 ft²	
Mechanical Tilt Range	0°-25°	
Wind Loading @ Velocity, frontal	284.0 N @ 150 km/h (63.8	lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	56.0 N @ 150 km/h (12.6 l	bf @ 150 km/h)
Wind Loading @ Velocity, maximum	286.0 N @ 150 km/h (64.3	lbf @ 150 km/h)
Wind Loading @ Velocity, rear	342.0 N @ 150 km/h (76.9	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	1035 mm 40.748 in
Weight, gross	19.7 kg 43.431 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

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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	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	6.2 kg 13.669 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets Hardware
Packaging quantity	1
Weight, gross	6.4 kg 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
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
UK-ROHS	Compliant

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