

16-port Planar Array Antenna, 8x 2300–2690 and 8x 3300-3800MHz, 90° HPBW, 2x RET

- For use in beamforming systems includes one calibration port per band
- 4x M-LOC cluster connectors (comprising 16 RF ports + 2 calibration ports in total) are provided for the beam-forming arrays

General Specifications

Antenna Type Sector- and beamforming

 Band
 Multiband

 Calibration Connector Interface
 M-LOC

 Calibration Connector Quantity
 2

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 M-LOC
RF Connector Location Bottom
RF Connector Quantity, high band 16
RF Connector Quantity, total 16

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface, quantity 1 female | 1 male

Internal RET High band (2)

Power Consumption, active state, maximum8 WPower Consumption, idle state, maximum1 WPower Consumption, normal conditions, maximum8 W

Protocol 3GPP/AISG 2.0 (Single RET)



Dimensions

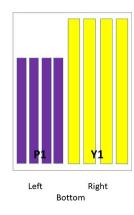
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 1499 mm | 59.016 in

Net Weight, without mounting kit 32.82 kg | 72.356 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	2300-2690	1-8	1	CPxxxxxxxxxxxxxY1
P1	3300-3800	9-16	2	CPxxxxxxxxxxxxxxxP1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 2300 – 2690 MHz | 3300 – 3800 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	2300-2500	2500-2690	3300-3600	3600-3800
requeries baria, mile	2500 2500	2000 2000	3300 3000	3000 3000
Gain, dBi	16.5	16.5	15.7	16.1
Beamwidth, Horizontal, degrees	103	97	99	92
Beamwidth, Vertical, degrees	5.2	5	6.7	6.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	20	15	14
Front-to-Back Ratio at 180°, dB	35	35	30	29
Coupling level, Amp, Antenna port to Cal port, dB	26	26	26	26
Coupling level, max Amp Δ , Antenna port to Cal port, dB	±2	±2	±2	±2
Coupler, max Amp Δ , Antenna port to Cal port, dB	1.8	1.8	1.8	1.8

Page 3 of 8



Coupler, max Phase Δ , Antenna port to Cal port, degrees	14	14	14	14
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	18	18	18	18
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-140	-140	-140	-140
Input Power per Port at 50°C, maximum, watts	150	150	75	75
Electrical Specifications,	BASTA			
Frequency Band, MHz	2300-2500	2500-2690	3300-3600	3600-3800
Gain by all Beam Tilts, average, dBi	16	16.1	15	15.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.6	±0.8
Beamwidth, Horizontal Tolerance, degrees	±13.1	±6.2	±14.9	±18
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4	±0.5
USLS, beampeak to 20° above beampeak, dB	17	17	14	13
Front-to-Back Total Power at 180° ± 30°, dB	26	26	20	21
CPR at Boresight, dB	15	15	17	14
CPR at Sector, dB	11	8	9	8
Electrical Specifications,	Broadcast 65	0		
Frequency Band, MHz	2300-2500	2500-2690	3300-3600	3600-3800
Gain, dBi	17.9	17.9	16.2	16.3
Beamwidth, Horizontal, degrees	63	62	67	65
Beamwidth, Horizontal Tolerance, degrees	±4.9	±3.2	±7.8	±4.9
Beamwidth, Vertical, degrees	5.2	4.9	6.7	6.3
Beamwidth, Vertical Tolerance, degrees	±0.2	±0.2	±0.4	±0.4
Electrical Specifications, Service Beam				
Frequency Band, MHz	2300-2500	2500-2690	3300-3600	3600-3800
Steered 0° Gain, dBi	21.6	21.8	20.6	20.8
Steered 0° Gain Tolerance, dBi	±0.3	±0.4	±0.4	±0.6
Steered 0° Beamwidth, Horizontal,	27	25	25	23

Page 4 of 8

degrees				
Steered 0° CPR at Beampeak, dB	16	16	20	15
Steered 0° Horizontal Sidelobe, dB	12	11	12	12
Steered 30° Gain, dBi	21.2	21.2	19.8	19.9
Steered 30° Gain Tolerance, dBi	±0.3	±0.5	±0.4	±0.5
Steered 30° Beamwidth, Horizontal, degrees	29	27	29	27
Steered 30° Horizontal Sidelobe, dB	10	9	10	9

Electrical Specifications, Soft Split

Frequency Band, MHz	2300-2500	2500-2690	3300-3600	3600-3800
Gain, dBi	21.1	21.1	19.7	19.9
Beamwidth, Horizontal, degrees	32	31	32	30
CPR at Beampeak, dB	16	15	18	16
Horizontal Sidelobe, dB	18	17	18	17

Mechanical Specifications

Wind Loading @ Velocity, frontal	549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	608 mm 23.937 in
Depth, packed	352 mm 13.858 in
Length, packed	1682 mm 66.221 in
Weight, gross	45.32 kg 99.913 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
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

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

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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant









