

8-Port Beamforming Antenna, 3300-3800 MHz, 1xRET

• For use in beamforming systems for 3300-3800 MHz with calibration ports

General Specifications

Antenna Type Sector and beamforming

Band Single band

Calibration Connector Interface 4.3-10 Female

Calibration Connector Quantity 1

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 4.3-10 Female

RF Connector LocationBottom

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 v2

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

RET Interface, quantity 1 female | 1 male

Input Voltage10-30 VdcInternal RETHigh band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

COMMSC PE°

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 430 mm | 16.929 in

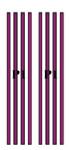
Depth 197 mm | 7.756 in

Length 850 mm | 33.465 in

Net Weight, antenna only 18.5 kg | 40.785 lb

TDD Column Spacing 42 mm | 1.654 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
P1	3300-3800	1 - 8	1	AISG1	ANxxxxxxxxxxxxx1

(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	3300 - 3800 MHz
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Polarization ±45°

Total Input Power, maximum 400 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	3300-3400	3400-3700	3700-3800
RF Port	1-8	1-8	1-8
Beam Tilt, degrees	0-10	0-10	0-10
Coupling level, Amp, Antenna port to Cal port, dB	26	26	26
Coupler, max Amp Δ , Antenna port to Cal port, dB	0.9	0.9	0.9
Coupler, max Phase Δ , Antenna port to Cal port, degrees	7	7	7
Isolation, Cross Polarization, dB	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-140	-140	-140
Input Power per Port at 50°C, maximum, watts	75	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3400	3400-3700	3700-3800
Gain, dBi	16	16.5	17
Front-to-Back Total Power at 180° ± 30°, dB	25	24	24
USLS (First Lobe), dB	12	15	16

Electrical Specifications, Envelope Pattern

Frequency Band, MHz	3300-3400	3400-3700	3700-3800
Gain, dBi	22.1	22.6	23.2
Beamwidth, Horizontal at 10 dB, degrees	138	130	123
Beamwidth, Vertical at 3 dB, degrees	6.5	6.2	6.1
Front-to-Back Total Power at 180° ± 30°, dB	26	27	27
USLS (First Lobe), dB	15	17	18

Electrical Specifications, Service Beam

Frequency Band, MHz	3300-3400	3400-3700	3700-3800
Steered 13° Gain, dBi	22.1	22.5	23.2
Steered 13° Beamwidth, Horizontal, degrees	18	17	16
Steered 13° Front-to-Back Total Power at 180° ±	33	33	32

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30°, dB			
Steered 13° USLS (First Lobe), dB	15	16	17
Steered 42° Gain, dBi	20.2	21.2	21.8
Steered 42° Beamwidth, Horizontal, degrees	21	20	19
Steered 42° Front-to-Back Total Power at 180° ± 30°, dB	25	26	27
Steered 42° USLS (First Lobe), dB	16	16	17

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3400	3400-3700	3700-3800
Gain, dBi	19	19.2	19.5
Beamwidth, Horizontal, degrees	49	48	47
Front-to-Back Total Power at 180° ± 30°, dB	27	27	26
Horizontal Sidelobe, dB	16	16	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	189.0 N @ 150 km/h (42.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	91.0 N @ 150 km/h (20.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	284.0 N @ 150 km/h (63.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	1022 mm 40.236 in
Weight, gross	29 kg 63.934 lb

Regulatory Compliance/Certifications

Agency Classification	
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ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

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.

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* 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

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