

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

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 Material PVC, UV resistant

Radiator Material Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8

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 Voltage 10-30 Vdc

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

Protocol 3GPP/AISG 2.0

Dimensions

COMMSC PE°

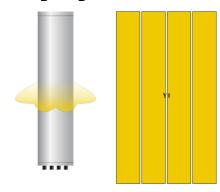
Width 307 mm | 12.087 in

Depth 118 mm | 4.646 in

Length 1610 mm | 63.386 in

Net Weight, without mounting kit 14.2 kg | 31.306 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
Y1	2300-2690	1 - 8	1	AISG1	CPxxxxxxxxxxxxxxY1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

COMMSC PE°

Operating Frequency Band 2300 – 2690 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	2300-2400	2496-2690
Beamwidth, Horizontal, degrees	95	86
Beamwidth, Vertical, degrees	5.1	4.8
Beam Tilt, degrees	2-12	2-12
USLS (First Lobe), dB	19	18
Front-to-Back Ratio at 180°, dB	30	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	24	24
Isolation, Inter-band, dB	24	24
Isolation, Co-polarization, dB	20	20
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port at 50°C, maximum, watts	150	150

Electrical Specifications, BASTA

Frequency Band, MHz	2300-2400	2496-2690
Gain by all Beam Tilts, average, dBi	17	16.9
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5
Front-to-Back Total Power at 180° ± 30°, dB	21	22
CPR at Boresight, dB	18	16
CPR at Sector, dB	10	6

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-2400	2496-2690
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	5.1	4.7
Front-to-Back Total Power at 180° ± 30°, dB	29	29
USLS (First Lobe), dB	19	17

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Electrical Specifications, Service Beam

Frequency Band, MHz	2300-2400	2496-2690
Steered 0° Gain, dBi	22.6	22.7
Steered 0° Beamwidth, Horizontal, degrees	26	25
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	34	34
Steered 0° USLS (First Lobe), dB	20	18
Steered 30° Gain, dBi	21.6	21.7
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	30	31

Electrical Specifications, Soft Split

Frequency Band, MHz	2300-2400	2496-2690
Gain, dBi	21.3	21.3
Beamwidth, Horizontal, degrees	35	32
Front-to-Back Total Power at 180° ± 30°, dB	30	30
Horizontal Sidelobe, dB	17	17

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, 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	24.1 kg 53.131 lb

Regulatory Compliance/Certifications

sification

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





