

#### 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

This product will be discontinued on: December 31, 2025

### General Specifications

Antenna Type Sector and beamforming

**Band** Single band

**Calibration Connector Interface** 4.3-10 Female

Calibration Connector Quantity

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, 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, 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 Voltage 10–30 Vdc

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

**Protocol** 3GPP/AISG 2.0

**Dimensions** 

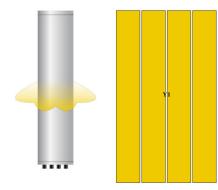
 Width
 307 mm | 12.087 in

 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	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°

## **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 $\Delta$ , Antenna port to Cal port, dB	±2	±2
Coupler, max Amp $\Delta$ , Antenna port to Cal port, dB	0.9	0.9
Coupler, max Phase $\Delta$ , Antenna port to Cal port, degrees	7	7
Isolation, Cross Polarization, dB	24	24
Isolation, Inter-band, dB	24	24



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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, 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

### 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

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 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

Agency Classification

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.

\* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

