

B-65B-R1VB01



2-port sector antenna, 2x 380-470MHz, 65° HPBW, 1xRET

- Antenna solution for TETRA and LTE 450 band
- With Remote Electrical Tilt (RET) functionality

General Specifications

Antenna Type	Sector
Band	Single band
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	Fiberglass, 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, low band	2
RF Connector Quantity, total	2

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
Internal RET	Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	500 mm 19.685 in
Depth	180 mm 7.087 in

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Length 2002 mm | 78.819 in

Net Weight, without mounting kit 24 kg | 52.911 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SFR)	AISG No.	RET UID
R1	380-470	1 - 2	65°	1	AISG1	ANXXXXXXXXXXXXXXXXR1

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	380 – 470 MHz
Polarization	±45°
Total Input Power, maximum	200 W

Electrical Specifications

	R1	R1
Frequency Band, MHz	380–430	430–470

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RF Port	1,2	1,2
Gain, dBi	13.4	13.9
Beamwidth, Horizontal, degrees	68	65
Beamwidth, Vertical, degrees	20.1	17.9
Beam Tilt, degrees	0–16	0–16
USLS (First Lobe), dB	17	16
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	25	28
CPR at Boresight, dB	23	26
Isolation, Cross Polarization, dB	28	28
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, maximum, watts	100	100

Mechanical Specifications

Wind Loading @ Velocity, frontal	906.0 N @ 150 km/h (203.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	352.0 N @ 150 km/h (79.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,191.0 N @ 150 km/h (267.7 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Environmental Specifications

Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
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Packaging and Weights

Width, packed	575 mm 22.638 in
Depth, packed	255 mm 10.039 in
Length, packed	2245 mm 88.386 in
Weight, gross	38 kg 83.776 lb

Regulatory Compliance/Certifications

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

Included Products

BSAMNT-B89-01	–	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