

R-65B-R1VB01



2-port sector antenna, 2x 694–960 MHz, 65° HPBW, 1x RET

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

Antenna Type	Sector
Band	Single band
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	320 mm 12.598 in
Depth	140 mm 5.512 in

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Length 2008 mm | 79.055 in

Net Weight, without mounting kit 19.3 kg | 42.549 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1

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



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 694 – 960 MHz

Polarization $\pm 45^\circ$

Total Input Power, maximum 500 W

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Electrical Specifications

	R1	R1	R1
Frequency Band, MHz	698–806	790–894	890–960
RF Port	1,2	1,2	1,2
Gain, dBi	15.9	16.4	16.8
Beamwidth, Horizontal, degrees	69	66	63
Beamwidth, Vertical, degrees	11.5	10.2	9.4
Beam Tilt, degrees	2–12	2–12	2–12
USLS (First Lobe), dB	22	21	17
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	29	29	28
CPR at Boresight, dB	29	30	28
Isolation, Cross Polarization, dB	28	28	28
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	300	300	300

Mechanical Specifications

Wind Loading @ Velocity, frontal	325.0 N @ 150 km/h (73.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	295.0 N @ 150 km/h (66.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	711.0 N @ 150 km/h (159.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	415 mm 16.339 in
Depth, packed	235 mm 9.252 in
Length, packed	2285 mm 89.961 in
Weight, gross	29 kg 63.934 lb

Regulatory Compliance/Certifications

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

* Footnotes

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Performance Note Severe environmental conditions may degrade optimum performance

