

R-85B-R1VB



2-port sector antenna, 2x 694–960 MHz, 85° 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
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	Aluminum
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
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R-85B-R1VB

Depth	166 mm 6.535 in
Length	1980 mm 77.953 in
Net Weight, antenna only	14.6 kg 32.187 lb

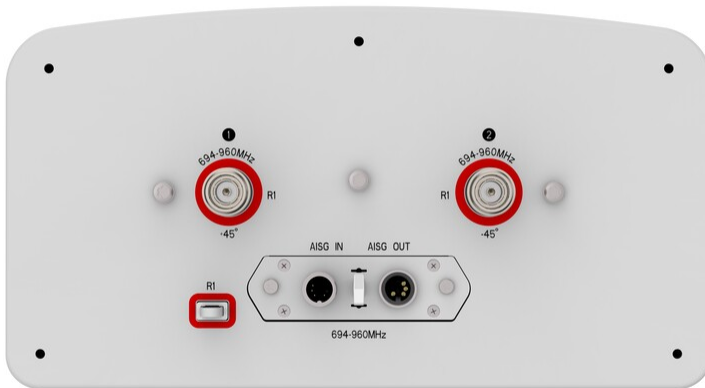
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	85°	1	AISG1	CPxxxxxxxxxxxxxxxxR1

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

Port Configuration



Electrical Specifications

R-85B-R1VB

Impedance	50 ohm
Operating Frequency Band	694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	400 W

Electrical Specifications

	R1	R1	R1
Frequency Band, MHz	698–806	790–894	890–960
RF Port	1,2	1,2	1,2
Gain, dBi	14.8	15.3	15.3
Beamwidth, Horizontal, degrees	82	79	76
Beamwidth, Vertical, degrees	12.1	11	10.3
Beam Tilt, degrees	2–12	2–12	2–12
USLS (First Lobe), dB	16	18	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	23	25	26
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	-150	-150	-150
Input Power per Port, maximum, watts	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	790–894	890–960
Gain by all Beam Tilts, average, dBi	14.5	14.9	15
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±3	±3	±2
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.7	±0.3
CPR at Boresight, dB	24	24	22

Mechanical Specifications

Wind Loading @ Velocity, frontal	831.0 N @ 150 km/h (186.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	910.0 N @ 150 km/h (204.6 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

R-85B-R1VB

Width, packed	450 mm 17.717 in
Depth, packed	280 mm 11.024 in
Length, packed	2275 mm 89.567 in
Weight, gross	26.2 kg 57.761 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-B98-01	-	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
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BSAMNT-B98-01



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 5.48 kg | 12.081 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 5.8 kg | 12.787 lb

Regulatory Compliance/Certifications

Agency

CE
ISO 9001:2015

Classification

Compliant with the relevant CE product directives
Designed, manufactured and/or distributed under this quality management system

