

R-33D-R1VB01



2-port sector antenna, 2x 694–960, 33° 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	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	579 mm 22.795 in
Depth	212 mm 8.346 in

R-33D-R1VB01

Length 2658 mm | 104.646 in

Net Weight, without mounting kit 35.3 kg | 77.823 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRE1)	AISG No.	AISG RET UID
R1	694-960	1 - 2	33°	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 ±45°
Total Input Power, maximum 500 W

Electrical Specifications

R1

R1

R1

R-33D-R1VB01

Frequency Band, MHz	698–806	790–894	890–960
RF Port	1,2	1,2	1,2
Gain, dBi	19.1	19.5	20
Beamwidth, Horizontal, degrees	37	33	32
Beamwidth, Vertical, degrees	8.8	7.8	7.4
Beam Tilt, degrees	2–12	2–12	2–12
USLS (First Lobe), dB	22	21	22
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	36	33	33
CPR at Boresight, dB	22	25	23
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	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300

Mechanical Specifications

Wind Loading @ Velocity, frontal	754.0 N @ 150 km/h (169.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	323.0 N @ 150 km/h (72.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	764.0 N @ 150 km/h (171.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	678 mm 26.693 in
Depth, packed	315 mm 12.402 in
Length, packed	2900 mm 114.173 in
Weight, gross	54.9 kg 121.034 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-B92-04	–	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, one middle bracket set and one bottom bracket set
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* Footnotes

R-33D-R1VB01

Performance Note Severe environmental conditions may degrade optimum performance



BSAMNT-B92-04



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, one middle 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 9.5 kg | 20.944 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Weight, gross 10 kg | 22.046 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

