

R-33D-R1VB-V2



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	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	497 mm 19.567 in
Depth	127 mm 5 in

R-33D-R1VB-V2

Length 2697 mm | 106.181 in

Net Weight, antenna only 28 kg | 61.729 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	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 $\pm 45^\circ$
Total Input Power, maximum 500 W

Electrical Specifications

R1

R1

R1

R-33D-R1VB-V2

Frequency Band, MHz	694–790	790–890	890–960
RF Port	1,2	1,2	1,2
Gain, dBi	19.1	19.6	19.9
Beamwidth, Horizontal, degrees	40	35	31
Beamwidth, Vertical, degrees	7.9	7.1	6.6
Beam Tilt, degrees	2–12	2–12	2–12
USLS (First Lobe), dB	17	17	20
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	34	33	32
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, lateral 295.0 N @ 150 km/h (66.3 lbf @ 150 km/h)

Packaging and Weights

Width, packed	592 mm 23.307 in
Depth, packed	247 mm 9.724 in
Length, packed	2897 mm 114.055 in
Weight, gross	43.6 kg 96.121 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-B95-02	–	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.
---------------	---	--

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

BSAMNT-B95-02



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 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 6 kg | 13.228 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 3

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

