

RR-65D-R2N43



4-port sector antenna, 4x 694-960MHz, 65° HPBW, 2 x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- Excellent wind loading characteristics

This product will be discontinued on: December 31, 2025

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, high band	0
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2)
Power Consumption, active state, maximum	8 W

RR-65D-R2N43

Power Consumption, idle state, maximum 1 W
Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 430 mm | 16.929 in
Depth 197 mm | 7.756 in
Length 2769 mm | 109.016 in
Net Weight, antenna only 37.7 kg | 83.114 lb

Array Layout

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2



Left Right
Bottom

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

Port Configuration

RR-65D-R2N43



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	700 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2
Frequency Band, MHz	694–790	790–890	890–960
RF Port	1,2,3,4	1,2,3,4	1,2,3,4
Gain, dBi	15.7	16.2	16.8
Beamwidth, Horizontal, degrees	62	56	55
Beamwidth, Vertical, degrees	7.7	6.9	6.3
Beam Tilt, degrees	2–12	2–12	2–12
USLS (First Lobe), dB	15	17	16
Front-to-Back Ratio at 180°, dB	32	33	29
Isolation, Cross Polarization, dB	27	27	27

RR-65D-R2N43

Isolation, Inter-band, dB	27	27	27
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 at 50°C, maximum, watts	250	250	250

Mechanical Specifications

Wind Loading @ Velocity, frontal	651.0 N @ 150 km/h (146.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	351.0 N @ 150 km/h (78.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,028.0 N @ 150 km/h (231.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	421.0 N @ 150 km/h (94.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	356 mm 14.016 in
Length, packed	2897 mm 114.055 in
Weight, gross	57.9 kg 127.647 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

BSAMNT-4	-	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.
BSAMNT-M4	-	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

RR-65D-R2N43

Performance Note

Severe environmental conditions may degrade optimum performance