

DD-65B-R2

4-port sector antenna, 4x 790–960 MHz, 65° HPBW, 2x RET



- Two DualPol® arrays in compact size with integrated RET capability
- Each DualPol® array can be independently adjusted for greater flexibility
- Engineered to support 4xMIMO applications & 4-way receive diversity for optimum coverage

OBSOLETE

This product was discontinued on: **March 31, 2022**

Replaced By:

RR-65B-R2

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

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	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

RET Interface	AISG1 8-pin DIN Female AISG1 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc

DD-65B-R2

Internal RET	Low band (2)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, without mounting kit	28 kg 61.729 lb

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	790 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	790–862	814–894	870–960
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DD-65B-R2

Gain, dBi	16.5	16.6	16.8
Beamwidth, Horizontal, degrees	69	67	66
Beamwidth, Vertical, degrees	10	9.6	9.1
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	18	20	21
Front-to-Back Ratio at 180°, dB	30	32	30
Isolation, Cross Polarization, dB	30	30	30
Isolation, Inter-band, dB	30	30	30
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 at 50°C, maximum, watts	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	790–862	814–894	870–960
Gain by all Beam Tilts, average, dBi	16.1	16.3	16.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0° 16.0 5° 16.2 10° 16.0	0° 16.2 5° 16.4 10° 16.2	0° 16.3 5° 16.6 10° 16.5
Beamwidth, Horizontal Tolerance, degrees	±4.9	±3.8	±3.9
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.5
USLS, beampeak to 20° above beampeak, dB	18	19	18
Front-to-Back Total Power at 180° ± 30°, dB	23	24	24
CPR at Boresight, dB	24	25	24
CPR at Sector, dB	13	16	11

Mechanical Specifications

Mechanical Tilt Range	0°–12°
Wind Loading @ Velocity, frontal	803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,040.0 N @ 150 km/h (233.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	661.0 N @ 150 km/h (148.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	608 mm 23.937 in
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DD-65B-R2

Depth, packed	352 mm 13.858 in
Length, packed	2282 mm 89.843 in
Weight, gross	43 kg 94.799 lb

Regulatory Compliance/Certifications

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



Included Products

BSAMNT-3	-	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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