

FF-65B-R2

4-port sector antenna, 4x 617–894 MHz, 65° HPBW, 2x RET, 600MHz-Ready Antenna Technology



General Specifications

Antenna Type	Sector
Band	Single band
Color	Light gray
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 Low loss circuit board
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	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	498 mm 19.606 in
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Depth	197 mm 7.756 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	29.7 kg 65.477 lb

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617–698	698–894
Gain, dBi	13.9	15.1
Beamwidth, Horizontal, degrees	70	60
Beamwidth, Vertical, degrees	14.6	12.3
Beam Tilt, degrees	2–14	2–14
USLS (First Lobe), dB	16	15
Front-to-Back Ratio at 180°, dB	27	30

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Isolation, Cross Polarization, dB	25	25
Isolation, Inter-band, dB	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-153
Input Power per Port, maximum, watts	300	300
Input Power per Port at 50°C, maximum, watts	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	617–698	698–894
Gain by all Beam Tilts, average, dBi	13.4	14
Gain by all Beam Tilts Tolerance, dB	±0.9	±1.2
Gain by Beam Tilt, average, dBi	2° 13.6 8° 13.5 14° 13.2	2° 14.3 8° 14.2 14° 13.5
Beamwidth, Horizontal Tolerance, degrees	±7.6	±6.9
Beamwidth, Vertical Tolerance, degrees	±1.3	±1.5
USLS, beampeak to 20° above beampeak, dB	16	16
Front-to-Back Total Power at 180° ± 30°, dB	21	20
CPR at Boresight, dB	18	17
CPR at Sector, dB	10	8

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.64 m ² 6.889 ft ²
Effective Projective Area (EPA), lateral	0.22 m ² 2.368 ft ²
Wind Loading at Velocity, frontal	153.1 lbf @ 150 km/h 685.0 N @ 150 km/h
Wind Loading at Velocity, lateral	232.0 N @ 150 km/h 52.1 lbf @ 150 km/h
Wind Loading at Velocity, maximum	199.9 lbf @ 150 km/h 889.0 N @ 150 km/h
Wind Loading at Velocity, rear	126.8 lbf @ 150 km/h 564.0 N @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	608 mm 23.937 in
Depth, packed	352 mm 13.858 in
Length, packed	2010 mm 79.134 in
Weight, gross	42 kg 92.594 lb

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Regulatory Compliance/Certifications

Agency

ISO 9001:2015

**Classification**

Designed, manufactured and/or distributed under this quality management system

Included Products

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|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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