

FF-45C-R1



4-port sector antenna, 4x 617–894 MHz, 45° HPBW, 1x RET

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- High gain for maximum coverage

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
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 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)

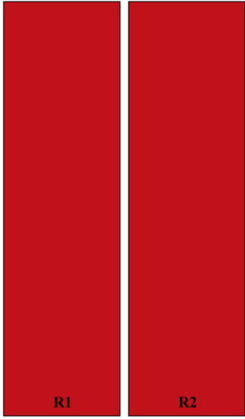
Dimensions

Width	970 mm 38.189 in
Depth	235 mm 9.252 in

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Length 2438 mm | 95.984 in
Net Weight, without mounting kit 81.8 kg | 180.338 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	617-894	3 - 4			

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

Port Configuration



Electrical Specifications

Impedance 50 ohm
Operating Frequency Band 617 – 894 MHz
Polarization ±45°
Total Input Power, maximum 600 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617–698	698–803	817–894
Gain, dBi	17.5	18	18.1
Beamwidth, Horizontal, degrees	48	42	39
Beamwidth, Vertical, degrees	10.2	9.2	7.9
Beam Tilt, degrees	0–10	0–10	0–10

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USLS (First Lobe), dB	18	19	17
Front-to-Back Ratio at 180°, dB	42	37	36
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter-band, dB	25	25	25
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	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	617–698	698–803	817–894
Gain by all Beam Tilts, average, dBi	17	17.5	17.9
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.6	±0.5
Beamwidth, Horizontal Tolerance, degrees	±2.2	±4.7	±2.4
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.5
USLS, beampeak to 20° above beampeak, dB	18	19	17
Front-to-Back Total Power at 180° ± 30°, dB	27	25	26
CPR at Boresight, dB	20	19	18
CPR at 10 dB Horizontal Beamwidth, dB	10	9	12

Mechanical Specifications

Wind Loading @ Velocity, frontal	3,022.0 N @ 150 km/h (679.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	922.0 N @ 150 km/h (207.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	3,022.0 N @ 150 km/h (679.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	1122 mm 44.173 in
Depth, packed	575 mm 22.638 in
Length, packed	2689 mm 105.866 in
Weight, gross	124 kg 273.373 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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ROHS Compliant/Exempted

UK-ROHS Compliant/Exempted



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance