FF-65B-R1

4-port sector antenna, 4x 617–806 MHz, 65° HPBW, 1x RET, 600MHz-Ready Antenna Technology

- Supports up to 15° of Mechanical Down Tilt

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 | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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 (1)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	640 mm | 25.197 in
Depth	235 mm | 9.252 in
Length	1830 mm | 72.047 in

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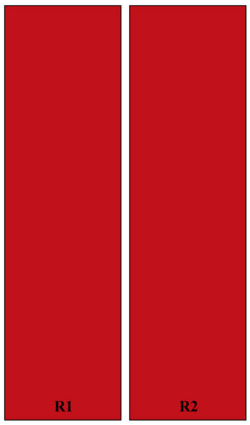
Net Weight, without mounting kit	39.5 kg | 87.082 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	617-806	1 - 2	65°	1	AISG1	ANxxxxxxxxxxxxxxx1
R2	617-806	3 - 4	65°			

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	617 – 806 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**617–698**	**698–806**
Gain, dBi	14.1	14.5
Beamwidth, Horizontal, degrees	66	60
Beamwidth, Vertical, degrees	14.8	13.3
Beam Tilt, degrees	2–14	2–14
USLS (First Lobe), dB	19	17
Front-to-Back Ratio at 180°, dB	34	30
Isolation, Cross Polarization, dB	28	28
Isolation, Inter-band, dB	28	28
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc		-153
Input Power per Port at 50°C, maximum, watts	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	**617–698**	**698–806**

Gain by all Beam Tilts, average, dBi	13.7	14.1
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6
Gain by Beam Tilt, average, dBi	2 ° | 13.5 8 ° | 13.7 14 ° | 13.6	2 ° | 13.9 8 ° | 14.2 14 ° | 14.1
Beamwidth, Horizontal Tolerance, degrees	±3.4	±4.0
Beamwidth, Vertical Tolerance, degrees	±1	±1
USLS, beampeak to 20° above beampeak, dB	18	17
Front-to-Back Total Power at 180° ± 30°, dB	23	21
CPR at Boresight, dB	21	26
CPR at Sector, dB	7	9

Mechanical Specifications

Wind Loading @ Velocity, frontal	765.0 N @ 150 km/h (172.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	251.0 N @ 150 km/h (56.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,041.0 N @ 150 km/h (234.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	752 mm | 29.606 in
Depth, packed	387 mm | 15.236 in
Length, packed	1982 mm | 78.032 in
Weight, gross	50.5 kg | 111.333 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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance