FFV4-65A-R3-V1

12-port sector antenna, 4x 617-894 and 8x 1695–2690 MHz, 65° HPBW, 3x RET

General Specifications

Antenna Type	Sector
Band	Multiband
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 | Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

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

Dimensions

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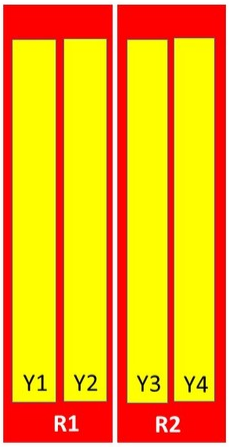
Width	640 mm | 25.197 in
Depth	235 mm | 9.252 in
Length	1224 mm | 48.189 in
Net Weight, without mounting kit	36 kg | 79.366 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	617-894	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	617-894	3-4		
Y1	1695-2690	5-6	2	CPxxxxxxxxxxxxxxxY1
Y2	1695-2690	7-8		
Y3	1695-2690	9-10	3	CPxxxxxxxxxxxxxxxY2
Y4	1695-2690	11-12		

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**617–698**	**698–806**	**806–894**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2500**	**2500–2690**
Gain, dBi	12.6	13	13.1	16.4	16.9	17.6	17.6	18.1
Beamwidth, Horizontal, degrees	67	65	63	62	61	60	59	58
Beamwidth, Vertical, degrees	21.9	19.4	19.1	7.7	7.3	6.7	5.9	5.6
Beam Tilt, degrees	5–22	5–22	5–18	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	13	17	15	15	17	19	18	18
Front-to-Back Ratio at 180°,	26	31	28	31	29	27	27	29

dB								
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200	200

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.47 m² | 5.059 ft²
Effective Projective Area (EPA), lateral	0.15 m² | 1.615 ft²
Mechanical Tilt Range	0°–15°
Wind Loading @ Velocity, frontal	505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	688.0 N @ 150 km/h (154.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	452.0 N @ 150 km/h (101.6 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	1379 mm | 54.291 in
Weight, gross	53 kg | 116.845 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance