FFV4-65B-R3-HG

12-Port antenna, 4 x 617-894 MHz, 8 x 1695-2690 MHz, 65° HPBW, 3 x RET

- Antenna design optimized to offer high gain performances
- Broadband performance 617-894 MHz and 1695-2690 MHz

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

Remote Electrical Tilt (RET) Information

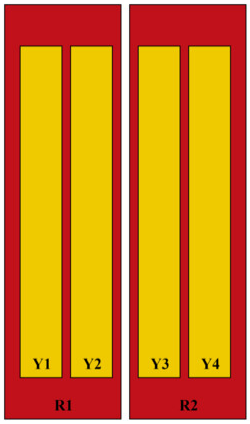
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	1 female | 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (1) | Mid band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

FFV4-65B-R3-HG

Dimensions

Width	640 mm | 25.197 in
Depth	235 mm | 9.252 in
Length	1828 mm | 71.969 in
Net Weight, antenna only	48.5 kg | 106.924 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	617-894	3 - 4			
Y1	1695-2690	5 - 6	2	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8			
Y3	1695-2690	9 - 10	3	AISG1	CPxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12			

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

Port Configuration

FFV4-65B-R3-HG

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

	R1,R2	R1,R2	R1,R2	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4
Frequency Band, MHz	**617–698**	**698–806**	**806–894**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2500**	**2500–2690**
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
Gain, dBi	14.5	14.8	15.7	18.2	18.5	18.8	19.2	19.7
Beamwidth, Horizontal, degrees	68	64	58	62	62	63	55	51
Beamwidth, Vertical, degrees	12.9	11.7	10.5	5	4.8	4.5	4	3.7
Beam Tilt, degrees	2–12	2–12	2–12	2–9	2–9	2–9	2–9	2–9
USLS (First Lobe), dB	16	17	15	15	16	18	17	17
Front-to-Back Ratio at 180°, dB	30	33	33	32	32	32	31	31
CPR at Boresight, dB	17	17	16	20	25	21	22	19
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	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	911.0 N @ 150 km/h (204.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	446.0 N @ 150 km/h (100.3 lbf @ 150 km/h)
Wind Speed, maximum	241.4 km/h (150 mph)

Packaging and Weights

FFV4-65B-R3-HG

Width, packed	752 mm | 29.606 in
Depth, packed	387 mm | 15.236 in
Length, packed	1982 mm | 78.032 in
Weight, gross	64.2 kg | 141.537 lb

Regulatory Compliance/Certifications

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

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