FFHHTTVV-65A-R8

16-port sector antenna, 4x 617-894, 4x1695-2200, 4x2490-2690 and 4x1695-2690 MHz, 65° HPBW, 8x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Antenna shape optimized for wind load reduction

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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	12
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (6) | Low band (2)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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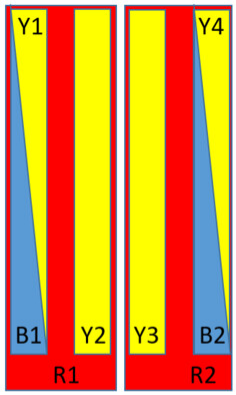
Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	1499 mm | 59.016 in
Net Weight, antenna only	35 kg | 77.162 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	617-894	1-2	1	CPxxxxxxxxxxxxxxR1
R2	617-894	3-4	2	CPxxxxxxxxxxxxxxR2
B1	1695-2200	5-6	3	CPxxxxxxxxxxxxxxB1
B2	1695-2200	7-8	4	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	11-12	6	CPxxxxxxxxxxxxxxY2
Y3	1695-2690	13-14	7	CPxxxxxxxxxxxxxxY3
Y4	2490-2690	15-16	8	CPxxxxxxxxxxxxxxY4

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

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz | 1695 – 2690 MHz | 2490 – 2690 MHz | 617 – 894 MHz

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Polarization	±45°
Total Input Power, maximum	1,400 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y4	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	**617–698**	**698–894**	**1695–1990**	**1920–2200**	**2490–2690**	**1695–1990**	**1920–2200**	**2300–2690**
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	9,10,15,16	11,12,13,14	11,12,13,14	11,12,13,14
Gain, dBi	12.7	13.3	16.2	16.5	16.7	16.5	17.4	17.4
Beamwidth, Horizontal, degrees	71	60	65	63	55	60	58	55
Beamwidth, Vertical, degrees	18.1	15.4	6.2	5.8	5	6.5	6	5.2
Beam Tilt, degrees	4–18	4–18	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	17	15	16	20	17	19	18
Front-to-Back Ratio at 180°, dB	32	30	32	32	26	33	35	33
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	200	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	510.0 N @ 150 km/h (114.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	133.0 N @ 150 km/h (29.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	351.0 N @ 150 km/h (78.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	309 mm | 12.165 in
Length, packed	1686 mm | 66.378 in
Weight, gross	47.9 kg | 105.601 lb

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Regulatory Compliance/Certifications

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

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