FVV-65B-R3-V1

6-port sector antenna, 2x 617-894 and 4x 1695–2690 MHz, 65° HPBW, 3x RET, 600 MHz-Ready Antenna Technology

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
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	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v1
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, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

Dimensions

Width	300 mm | 11.811 in
Depth	181 mm | 7.126 in
Length	1828 mm | 71.969 in
Net Weight, without mounting kit	20.7 kg | 45.636 lb

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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**	**698–894**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2500**	**2500–2690**
Gain, dBi	14.3	14.7	17.5	18.1	18.4	18.7	18.7
Beamwidth, Horizontal, degrees	71	70	66	64	64	63	60
Beamwidth, Vertical, degrees	14.5	12.2	5.6	5.3	5	4.4	4.2
Beam Tilt, degrees	2–14	2–14	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	20	19	18	18	19	20	20
Front-to-Back Ratio at 180°, dB	25	29	37	35	31	28	32
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	**617–698**	**698–894**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2500**	**2500–2690**
Gain by all Beam Tilts, average, dBi	14	14.3	17	17.6	18.1	18.4	18.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.7	±0.5	±0.5	±0.4	±0.4
Beamwidth, Horizontal Tolerance, degrees	±2	±3.3	±3.5	±2.7	±2.9	±6.7	±7.5
Beamwidth, Vertical Tolerance, degrees	±1.3	±1.5	±0.4	±0.2	±0.3	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB		17	15	17	17	17	13
Front-to-Back Total Power at	20	22	24	26	26	24	27

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180° ± 30°, dB							
CPR at Boresight, dB	16	15	17	18	19	18	16
CPR at Sector, dB	9	9	8	9	6	4	3

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.26 m² | 2.799 ft²
Effective Projective Area (EPA), lateral	0.22 m² | 2.368 ft²
Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h | 149.75 mph

Packaging and Weights

Width, packed	391 mm | 15.394 in
Depth, packed	296 mm | 11.654 in
Length, packed	1938 mm | 76.299 in
Weight, gross	26.1 kg | 57.541 lb

Regulatory Compliance/Certifications

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

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