FFVV-65C-R2N23

8-port sector antenna, 4x 617-894 and 4x 1695–2690 MHz, 65° HPBW, 2x RET

- Meets -153dBc 3rd order PIM for 617-894MHz &1695-2690MHz, using 2x40W carriers
- Equivalent performance designed into a narrower antenna platform
- Improved aerodynamic design allows for reduced wind load
- Reduced weight platform allows for decreased tower loading

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, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

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 (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

FFVV-65C-R2N23

Dimensions

Width	579 mm | 22.795 in
Depth	212 mm | 8.346 in
Length	2438 mm | 95.984 in
Net Weight, antenna only	47 kg | 103.617 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			

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

Port Configuration

FFVV-65C-R2N23

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	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**617–698**	**698–894**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2500**	**2500–2690**
RF Port	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain, dBi	15.7	16.5	18	18.2	18.6	19.1	19.6
Beamwidth, Horizontal, degrees	70	62	65	63	63	63	52
Beamwidth, Vertical, degrees	10.4	8.9	5.5	5.3	5.1	4.4	4.1
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	17	18	17	17	19	18
Front-to-Back Ratio at 180°, dB	32	31	36	39	37	32	32
Front-to-Back Total Power at 180° ± 30°, dB	21	22	30	31	30	27	27

FFVV-65C-R2N23

Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 40 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	683.0 N @ 150 km/h (153.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	280.0 N @ 150 km/h (62.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,090.0 N @ 150 km/h (245.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	682 mm | 26.85 in
Depth, packed	319 mm | 12.559 in
Length, packed	2562 mm | 100.866 in
Weight, gross	68.5 kg | 151.016 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.andrew.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.
BSAMNT-M4	–	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

FFVV-65C-R2N23

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance