

# FFV4-65C-R6



12-port sector antenna, 4x 617-894 and 8x 1695-2690 MHz, 65°HPBW, 6x RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10-30 Vdc
<b>Internal RET</b>	Low band (2)   Mid band (4)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

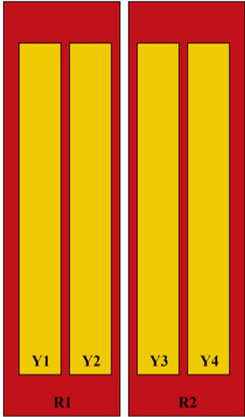
<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2438 mm   95.984 in

# FFV4-65C-R6

Net Weight, antenna only

40 kg | 88.185 lb

## Array Layout

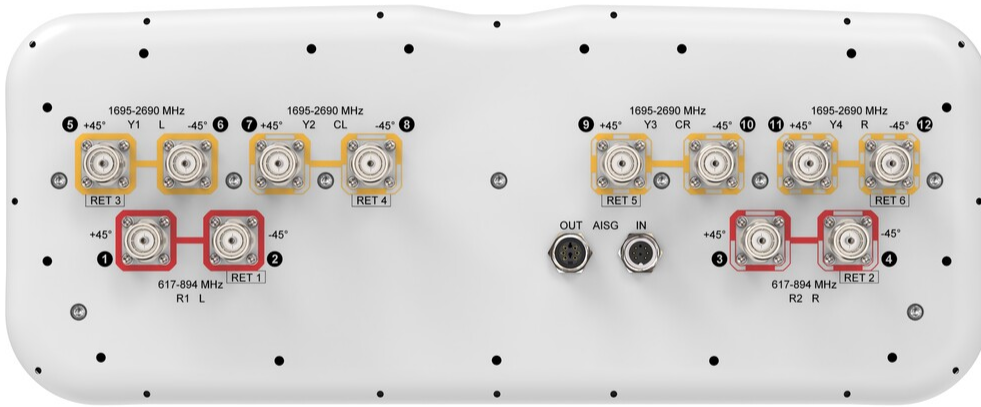


Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG RET UID
R1	617-894	1 - 2	65°	1	CPXXXXXXXXXXXXR1
R2	617-894	3 - 4	65°	2	CPXXXXXXXXXXXXR2
Y1	1695-2690	5 - 6	65°	3	CPXXXXXXXXXXXXY1
Y2	1695-2690	7 - 8	65°	4	CPXXXXXXXXXXXXY2
Y3	1695-2690	9 - 10	65°	5	CPXXXXXXXXXXXXY3
Y4	1695-2690	11 - 12	65°	6	CPXXXXXXXXXXXXY4

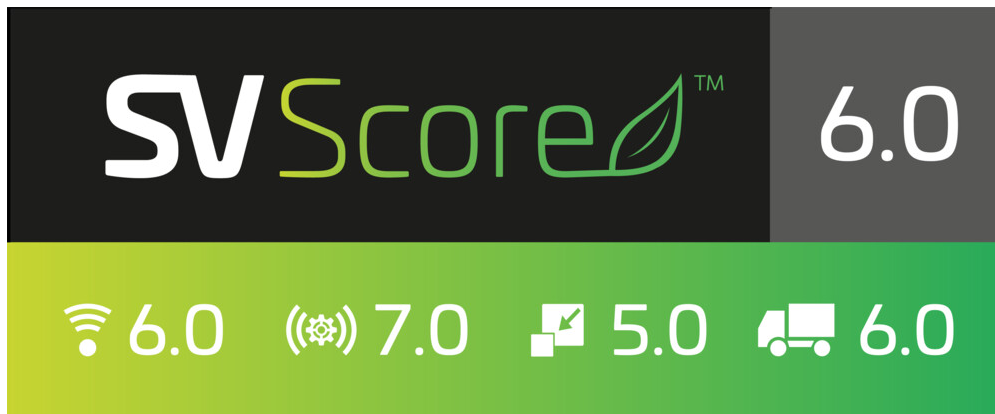
(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration

# FFV4-65C-R6



## Logo Image



## Electrical Specifications

# FFV4-65C-R6

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   617 – 894 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,400 W @ 50 °C

## Electrical Specifications

	<b>R1,R2</b>	<b>R1,R2</b>	<b>Y1,Y2,Y3,Y4</b>	<b>Y1,Y2,Y3,Y4</b>	<b>Y1,Y2,Y3,Y4</b>	<b>Y1,Y2,Y3,Y4</b>	<b>Y1,Y2,Y3,Y4</b>
<b>Frequency Band, MHz</b>	<b>617–698</b>	<b>698–894</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>RF Port</b>	1,2,3,4	1,2,3,4	5,6,7,8,9,10,11,12	5,6,7,8,9,10,11,12	5,6,7,8,9,10,11,12	5,6,7,8,9,10,11,12	5,6,7,8,9,10,11,12
<b>Gain, dBi</b>	15	15.7	17.2	17.8	18.1	18.5	18.6
<b>Gain at Mid Tilt, dBi</b>	14.7	15.5	16.7	17.4	17.8	18.3	18.1
<b>Beamwidth, Horizontal, degrees</b>	66	56	65	66	64	59	59
<b>Beamwidth, Vertical, degrees</b>	10.3	8.7	5.6	5.3	5	4.5	4.2
<b>Beam Tilt, degrees</b>	2–13	2–13	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	18	16	19	22	22	22	21
<b>Front-to-Back Ratio at 180°, dB</b>	29	31	34	33	33	30	27
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	22	26	29	27	24	22
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	200	200	200	200	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>617–698</b>	<b>698–894</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.5	15.2	16.6	17.3	17.7	18.1	18
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.8	±0.5	±0.7	±0.5	±0.5	±0.6	±0.5
<b>Beamwidth, Horizontal</b>	±4	±5	±5	±4	±4	±8	±7

# FFV4-65C-R6

## Tolerance, degrees

<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.7	±1	±0.3	±0.2	±0.3	±0.3	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	15	16	17	17	17	16
<b>CPR at Boresight, dB</b>	20	18	19	19	18	14	13
<b>CPR at Sector, dB</b>	10	8	8	7	7	5	5

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	829.0 N @ 150 km/h (186.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	217.0 N @ 150 km/h (48.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	1,102.0 N @ 150 km/h (247.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	570.0 N @ 150 km/h (128.1 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	565 mm   22.244 in
<b>Depth, packed</b>	309 mm   12.165 in
<b>Length, packed</b>	2625 mm   103.347 in
<b>Weight, gross</b>	53.3 kg   117.506 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant/Exempted



## Included Products

BSAMNT-2F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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\* Footnotes

**Performance Note**

Severe environmental conditions may degrade optimum performance