

# FFV4-65C-R6-V2



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

- Antenna includes 2x Single Column X-Pol Arrays for 617-894MHz and 4x Single Column X-Pol Arrays for 1695-2690MHz, suitable for 4x MIMO applications

## 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>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high 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>	High band (4)   Low band (2)
<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

# FFV4-65C-R6-V2

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2438 mm   95.984 in
<b>Net Weight, antenna only</b>	39 kg   85.98 lb

## Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	617-894	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	617-894	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxxxxxY4

Left Bottom Right

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

## Port Configuration

# FFV4-65C-R6-V2



## Electrical Specifications

<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

Frequency Band, MHz	617–698	698–894	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
<b>RF Port</b>	1-4	1-4	5-12	5-12	5-12	5-12	5-12
<b>Gain, dBi</b>	14.8	15.5	16.6	17	17.3	17.6	18
<b>Beamwidth, Horizontal, degrees</b>	65	57	64	65	63	58	57
<b>Beamwidth, Vertical, degrees</b>	10.2	8.7	6.6	6.3	6	5.3	5.1
<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>	19	18	18	18	19	20	19
<b>Front-to-Back Ratio at 180°, dB</b>	30	31	35	35	33	31	28
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25

# FFV4-65C-R6-V2

<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>	14.4	15	16.2	16.7	17	17.1	17.3
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6	±0.5	±0.7	±0.3	±0.5	±0.6	±0.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±3	±6	±8	±5	±6	±8	±6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.5	±1	±0.4	±0.3	±0.4	±0.3	±0.4
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	16	15	15	15	16	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	22	27	28	27	23	21
<b>CPR at Boresight, dB</b>	17	16	20	20	20	18	18
<b>CPR at Sector, dB</b>	10	8	9	9	9	4	4

## 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>	52.3 kg   115.302 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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# FFV4-65C-R6-V2

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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



## Included Products

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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

## Product Classification

**Product Type** Fixed tilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 3.8 kg | 8.378 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 4 kg | 8.818 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

# BSAMNT-2F

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