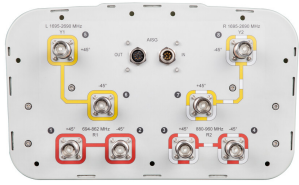


# EGVV65B-FL-C3-4XR



8-port sector antenna, 2x 694–862, 2x 880–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET. Low band arrays are diplexed at the element level.

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<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>	Aluminum   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>	4
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information

<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 (2)   Low band (2)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

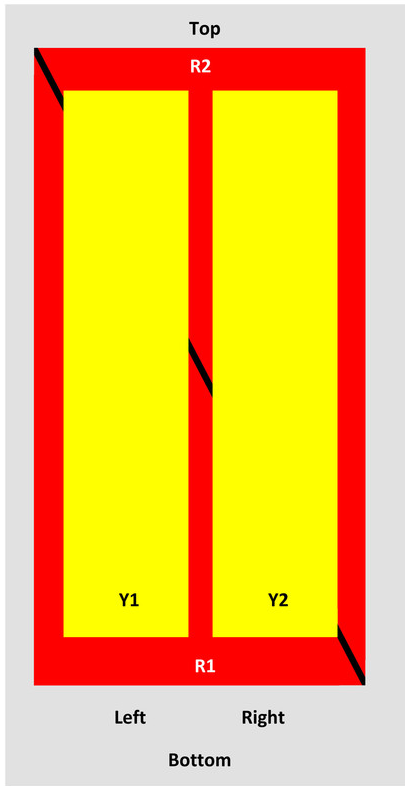
<b>Width</b>	350 mm   13.78 in
--------------	-------------------

# EGVV65B-FL-C3-4XR

<b>Depth</b>	208 mm   8.189 in
<b>Length</b>	1850 mm   72.835 in
<b>Net Weight, without mounting kit</b>	30.5 kg   67.241 lb

## Array Layout

EGVV65A-FL-C3-4XR, B & C



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	ANXXXXXXXXXXXXX1
R2	880-960	3-4	2	ANXXXXXXXXXXXXX2
Y1	1695-2690	5-6	3	ANXXXXXXXXXXXXX3
Y2	1695-2690	7-8	4	ANXXXXXXXXXXXXX4

View from the front of the antenna  
(Sizes of colored boxes are not true depictions of array sizes)

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   694 – 862 MHz   880 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	800 W @ 50 °C

## Electrical Specifications

# EGVV65B-FL-C3-4XR

Frequency Band, MHz	694–862	880–960	1695–1920	1920–2180	2300–2500	2500–2690
Gain, dBi	15.2	15.5	18.2	18.9	18.8	18.8
Beamwidth, Horizontal, degrees	67	62	60	61	60	59
Beamwidth, Vertical, degrees	11.8	9.8	5.6	5	4.4	4.3
Beam Tilt, degrees	2–14	2–14	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	19	19	20	18	19
Front-to-Back Ratio at 180°, dB	29	29	31	36	36	37
Isolation, Cross Polarization, dB	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	250	250	250	200

## Electrical Specifications, BASTA

Frequency Band, MHz	694–862	880–960	1695–1920	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	14.9	15.3	17.6	18.4	18.4	18.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.8	±0.5	±0.6	±0.7
Gain by Beam Tilt, average, dBi	2° 14.9 8° 14.9 14° 14.8	2° 15.5 8° 15.3 14° 15.0	2° 17.3 7° 17.7 12° 17.7	2° 17.9 7° 18.5 12° 18.5	2° 18.0 7° 18.6 12° 18.4	2° 17.9 7° 18.6 12° 18.4
Beamwidth, Horizontal Tolerance, degrees	±1.3	±2.6	±4.4	±3.2	±4.7	±3.2
Beamwidth, Vertical Tolerance, degrees	±1.3	±0.5	±0.4	±0.4	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	17	16	17	15	15
Front-to-Back Total Power at 180° ± 30°, dB	25	23	27	29	29	29
CPR at Boresight, dB	20	19	19	20	21	18
CPR at Sector, dB	12	10	12	10	8	6

## Mechanical Specifications

Wind Loading @ Velocity, frontal	306.0 N @ 150 km/h (68.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	258.0 N @ 150 km/h (58.0 lbf @ 150 km/h)

# EGVV65B-FL-C3-4XR

---

<b>Wind Loading @ Velocity, maximum</b>	647.0 N @ 150 km/h (145.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	324.0 N @ 150 km/h (72.8 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	460 mm   18.11 in
<b>Depth, packed</b>	350 mm   13.78 in
<b>Length, packed</b>	2000 mm   78.74 in
<b>Weight, gross</b>	44 kg   97.003 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above 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/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