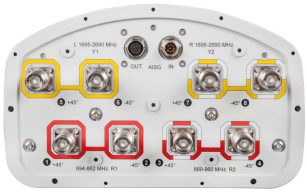
EGVV65A-FL-C3-4XR



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

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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, high band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

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

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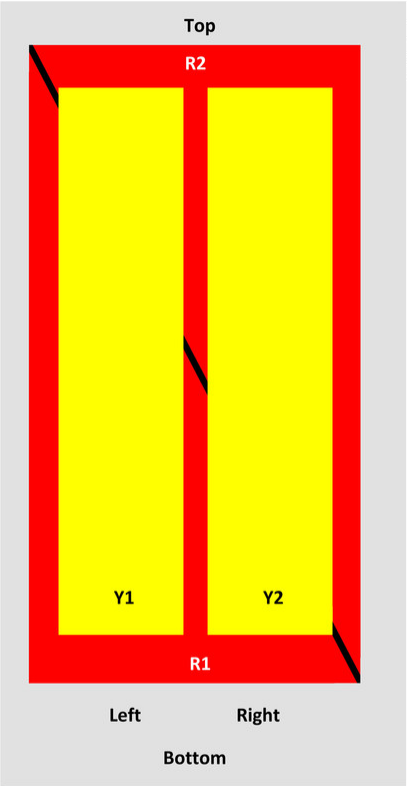
EGVV65A-FL-C3-4XR

Dimensions

Width	301 mm | 11.85 in
Depth	180.5 mm | 7.106 in
Length	1,416.5 mm | 55.768 in
Net Weight, without mounting kit	23.9 kg | 52.69 lb

Array Layout

EGVV65A-FL—C3-4XR, B & C



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	ANxxxxxxxxxxxxxxxx1
R2	880-960	3-4	2	ANxxxxxxxxxxxxxxxx2
Y1	1695-2690	5-6	3	ANxxxxxxxxxxxxxxxx3
Y2	1695-2690	7-8	4	ANxxxxxxxxxxxxxxxx4

View from the front of the antenna

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 694 – 862 MHz | 880 – 960 MHz
Polarization	±45°

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EGVV65A-FL-C3-4XR

Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**694–862**	**880–960**	**1695–1920**	**1920–2180**	**2300–2500**	**2500–2690**
Gain, dBi	13.4	13.8	16.8	17.6	18	17.9
Beamwidth, Horizontal, degrees	70	67	64	65	61	60
Beamwidth, Vertical, degrees	16.5	13.8	7.2	6.4	5.5	5.2
Beam Tilt, degrees	2–17	2–17	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	16	19	18	17	17
Front-to-Back Ratio at 180°, dB	27	28	28	31	31	30
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

Mechanical Specifications

Wind Loading @ Velocity, frontal	206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	170.0 N @ 150 km/h (38.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	397.0 N @ 150 km/h (89.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	209.0 N @ 150 km/h (47.0 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	429 mm | 16.89 in
Depth, packed	329 mm | 12.953 in
Length, packed	1672 mm | 65.827 in
Weight, gross	35.9 kg | 79.146 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CE	Compliant with the relevant CE product directives

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EGVV65A-FL-C3-4XR

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 www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant

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

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