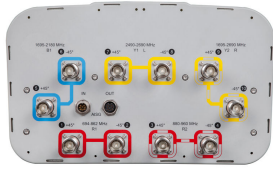


# EGHTV65B-F-C3-5XR



10-port sector antenna, 2x 694–862, 2x 880–960, 2x 1695–2180, 2x 2490–2690 and 2x 1695–2690 MHz, 65° HPBW, 5x RET. Low band (LB) and one high (HB1/HB2) 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

## OBSOLETE

This product was discontinued on: **March 31, 2023**

## 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   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<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>	6
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	10

## 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 (3)   Low band (2)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W

# EGHTV65B-F-C3-5XR

**Protocol** 3GPP/AISG 2.0 (Single RET)

## Dimensions

**Width** 350 mm | 13.78 in

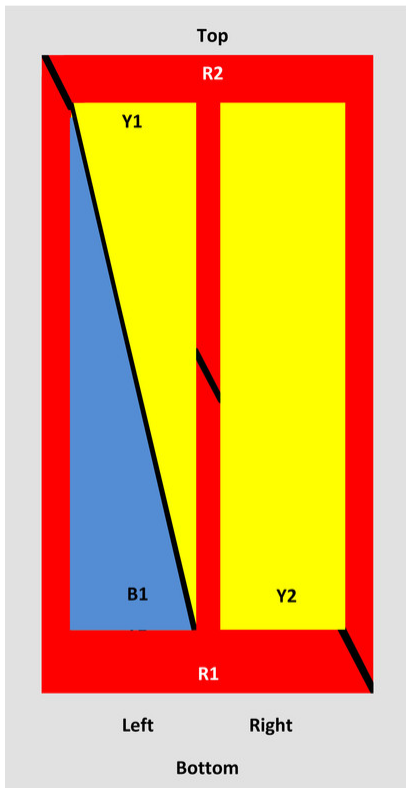
**Depth** 208 mm | 8.189 in

**Length** 1828 mm | 71.969 in

**Net Weight, without mounting kit** 30 kg | 66.139 lb

## Array Layout

EGHTV65B-F-C3-5XR



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	ANXXXXXXXXXXXXX1
R2	880-960	3-4	2	ANXXXXXXXXXXXXX2
B1	1695-2180	5-6	3	ANXXXXXXXXXXXXX3
Y1	2490-2690	7-8	4	ANXXXXXXXXXXXXX4
Y2	1695-2690	9-10	5	ANXXXXXXXXXXXXX5

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 – 2180 MHz | 1695 – 2690 MHz | 2490 – 2690 MHz | 694 –

# EGHTV65B-F-C3-5XR

862 MHz | 880 – 960 MHz

**Polarization**

±45°

**Total Input Power, maximum**

800 W @ 50 °C

## Electrical Specifications

	LB	LB	HB1	HB1	HB2	HB3	HB3	HB3
<b>Frequency Band, MHz</b>	<b>694–862</b>	<b>880–960</b>	<b>1920–2180</b>	<b>1695–1920</b>	<b>2490–2690</b>	<b>1920–2180</b>	<b>2300–2690</b>	<b>1695–1920</b>
<b>Gain, dBi</b>	15.1	15.5	18	17.7	18.3	18.8	19.2	18.1
<b>Beamwidth, Horizontal, degrees</b>	66	63	64	62	64	64	62	62
<b>Beamwidth, Vertical, degrees</b>	11.7	9.9	4.9	5.5	4.1	4.9	4.2	5.5
<b>Beam Tilt, degrees</b>	2–14	2–14	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	15	19	17	17	21	17	19	16
<b>Front-to-Back Ratio at 180°, dB</b>	32	32	35	31	30	37	36	32
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28	28	28	28	28
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30	30	30
<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	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	250	250	200	250	200	250

## Electrical Specifications, BASTA

	694–862	880–960	1920–2180	1695–1920	2490–2690	1920–2180	2300–2690	1695–1920
<b>Frequency Band, MHz</b>	<b>694–862</b>	<b>880–960</b>	<b>1920–2180</b>	<b>1695–1920</b>	<b>2490–2690</b>	<b>1920–2180</b>	<b>2300–2690</b>	<b>1695–1920</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.8	15.3	17.8	17.5	17.9	18.5	19	17.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.3	±0.3	±0.5	±0.5	±0.4	±0.4	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	2° 14.9 8° 14.9 14° 14.7	2° 15.4 8° 15.3 14° 15.1	2° 17.6 7° 17.9 12° 17.6	2° 17.3 7° 17.5 12° 17.3	2° 17.7 7° 18.1 12° 17.6	2° 18.2 7° 18.6 12° 18.3	2° 18.8 7° 19.2 12° 18.7	2° 17.7 7° 17.9 12° 17.7
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.5	±2.8	±2.1	±3.7	±2.9	±3.5	±3.3	±3.8
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.3	±0.6	±0.3	±0.3	±0.2	±0.3	±0.2	±0.4
<b>USLS, beampeak to 20° above beampeak, dB</b>	15	19	17	16	17	17	17	15
<b>Front-to-Back Total Power at</b>	24	23	26	26	26	27	28	27

# EGHTV65B-F-C3-5XR

180° ± 30°, dB

CPR at Boresight, dB	21	23	22	17	18	22	20	19
CPR at Sector, dB	11	10	10	12	9	10	9	12

## Mechanical Specifications

Wind Loading @ Velocity, frontal	301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	638.0 N @ 150 km/h (143.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	456 mm   17.953 in
Depth, packed	357 mm   14.055 in
Length, packed	1975 mm   77.756 in
Weight, gross	43.5 kg   95.901 lb

## Regulatory Compliance/Certifications

Agency	Classification
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
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.
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## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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