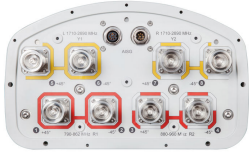


# DGVV65A-FL-4XR



8-port sector antenna, 2x 790–862, 2x 880–960 and 4 x 1710–2690 MHz, 65° HPBW. 4x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment

## OBSOLETE

This product was discontinued on: March 27, 2020

## 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   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<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>	7-16 DIN 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)

# DGVV65A-FL-4XR

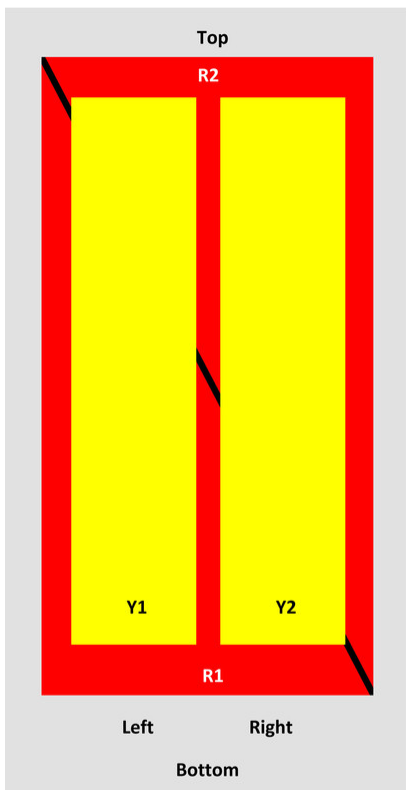
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	180.5 mm   7.106 in
<b>Length</b>	1,416.5 mm   55.768 in
<b>Net Weight, without mounting kit</b>	25 kg   55.115 lb

## Array Layout

DGVV65A-FL-4XR



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	790-862	1-2	1	ANXXXXXXXXXXXXX1
R2	880-960	3-4	2	ANXXXXXXXXXXXXX2
Y1	1710-2690	5-6	3	ANXXXXXXXXXXXXX3
Y2	1710-2690	7-8	4	ANXXXXXXXXXXXXX4

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

## Electrical Specifications

# DGVV65A-FL-4XR

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2690 MHz   790 – 862 MHz   880 – 960 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>790–862</b>	<b>880–960</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain, dBi</b>	14	14	17.1	17.4	17.7	18.1	18.2
<b>Beamwidth, Horizontal, degrees</b>	70	69	61	62	64	62	58
<b>Beamwidth, Vertical, degrees</b>	15.5	14.1	7.3	6.8	6.4	5.6	5.3
<b>Beam Tilt, degrees</b>	0–15	0–15	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	18	13	14	14	16	16
<b>Front-to-Back Ratio at 180°, dB</b>	30	28	27	32	32	29	28
<b>CPR at Boresight, dB</b>	19	19	16	18	17	19	19
<b>CPR at Sector, dB</b>	10	10	10	12	11	7	7
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28	28	28	28
<b>Isolation, Inter-band, dB</b>	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
<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	300	300	300	300	300

## Mechanical Specifications

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

## Packaging and Weights

<b>Width, packed</b>	429 mm   16.89 in
<b>Depth, packed</b>	329 mm   12.953 in
<b>Length, packed</b>	1672 mm   65.827 in
<b>Weight, gross</b>	37 kg   81.571 lb

# DGVV65A-FL-4XR

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## 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
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

# 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.

## Product Classification

**Product Type** Downtilt 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** 6.2 kg | 13.669 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.4 kg | 14.11 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-3

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