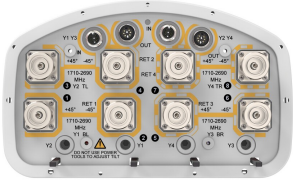


# V4-65D-R4-V2



8-port sector antenna, 8x 1710–2690 MHz, 65° HPBW, 4x RET with manual override. Antenna rear wind loading 445N @ 150km/h

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- Wind Loading; Frontal / Lateral / Rear – 439 / 372 / 445 N @ 150km/h

## OBSOLETE

This product was discontinued on: November 30, 2023

### Replaced By:

8P-8M-A4  
V4-65A-R4

8-port sector antenna, 8x 1695–2690 MHz, 65° HPBW, 4x RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<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>	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, 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>	2 female   2 male

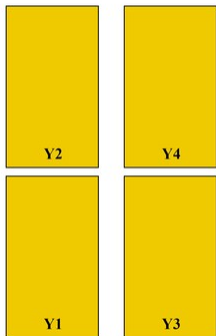
# V4-65D-R4-V2

<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (4)
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Power Consumption, normal conditions, maximum</b>	8 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	180 mm   7.087 in
<b>Length</b>	2675 mm   105.315 in
<b>Net Weight, without mounting kit</b>	29.5 kg   65.036 lb

## Array Layout

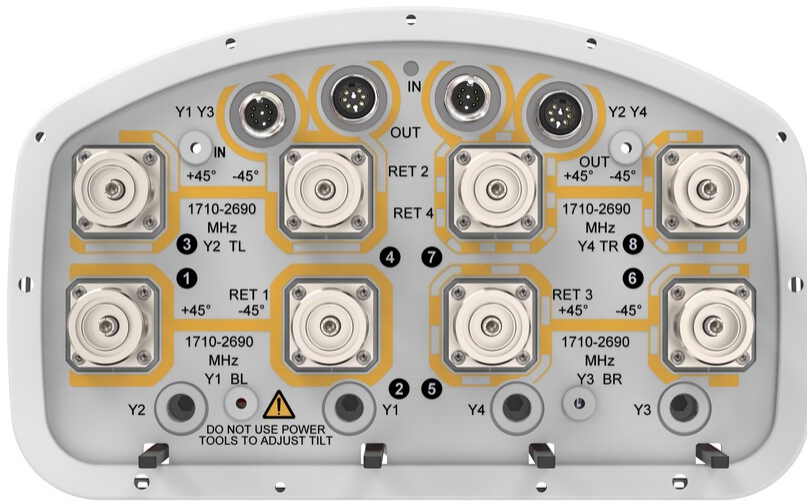


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
Y1	1710-2690	1 - 2	1	AISG1	CPXXXXXXXXXXXXY1
Y2	1710-2690	3 - 4	2	AISG2	CPXXXXXXXXXXXXY2
Y3	1710-2690	5 - 6	3	AISG1	CPXXXXXXXXXXXXY3
Y4	1710-2690	7 - 8	4	AISG2	CPXXXXXXXXXXXXY4

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

## Port Configuration

# V4-65D-R4-V2



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	1710–1880	1920–2200	2300–2500	2500–2690
<b>Gain, dBi</b>	16.9	17.8	18.3	18.9
<b>Beamwidth, Horizontal, degrees</b>	70	67	60	54
<b>Beamwidth, Vertical, degrees</b>	6.9	6.3	5.5	5.2
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	16	17	20	20
<b>Front-to-Back Ratio at 180°, dB</b>	35	37	40	39
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	28
<b>VSWR   Return loss, dB</b>	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

# V4-65D-R4-V2

<b>Input Power per Port at 50°C, maximum, watts</b>	200	200	200	200
---	-----	-----	-----	-----

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1710–1880</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	16.8	17.4	18.1	18.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.3	±0.5	±0.4	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	0°   16.6 5°   16.8 10°   16.8	0°   17.3 5°   17.5 10°   17.3	0°   17.8 5°   18.1 10°   18.1	0°   18.4 5°   18.7 10°   18.2
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2.7	±3	±4.1	±2.8
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.5	±0.6	±0.4	±0.4
<b>USLS, beampeak to 20° above beampeak, dB</b>	15	15	18	18
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25	27	28	27
<b>CPR at Boresight, dB</b>	15	16	16	15
<b>CPR at Sector, dB</b>	12	12	6	5

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	439.0 N @ 150 km/h (98.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	372.0 N @ 150 km/h (83.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	845.0 N @ 150 km/h (190.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	445.0 N @ 150 km/h (100.0 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	409 mm   16.102 in
<b>Depth, packed</b>	309 mm   12.165 in
<b>Length, packed</b>	2924 mm   115.118 in
<b>Weight, gross</b>	48 kg   105.822 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

# V4-65D-R4-V2

---

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.
- BSAMNT-M – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance