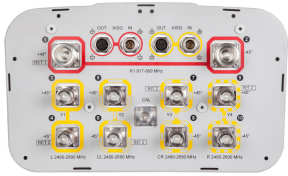


# DT465B-2XR-V2



10-port, Multiband, DualPol® Planar Array ® Antenna, 2x 817-869, 8x 2490-2690 MHz, 65° HPBW, 2x RET with individual tilt available for the 850 MHz band and 2500 MHz bands.

- 1 column for 817-869 MHz and 4 columns for 2490-2690 MHz
- Two sets of AISG inputs for independent control of the internal RETs
- Integrated with a calibration board

## OBSOLETE

This product was discontinued on: **March 31, 2021**

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Calibration Connector Interface</b>	N Female
<b>Calibration Connector Quantity</b>	1
<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>	Copper   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.1-9.5 DIN Female   7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	8
<b>RF Connector Quantity, low band</b>	2
<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>	2 female   2 male

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

## Dimensions

<b>Width</b>	350 mm   13.78 in
<b>Depth</b>	209 mm   8.228 in
<b>Length</b>	1825 mm   71.85 in
<b>Net Weight, without mounting kit</b>	26.5 kg   58.422 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	2490 – 2690 MHz   817 – 869 MHz
<b>Polarization</b>	±45°

## Beam Forming Weights

		Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	
P0	Tapered_Broadcast_65° for tilt0-3	Amp(voltage)	0.81	0	1	0	0.73	0	0.6	0
		PHz	0	0	115	0	100	0	0	0
P1	Tapered_Broadcast_65° for tilt0-3	Amp(voltage)	0	0.81	0	1	0	0.73	0	0.6
		PHz	0	0	0	115	0	100	0	0
P0	Tapered_Broadcast_65° for tilt4-8	Amp(voltage)	0.81	0	1	0	0.73	0	0.6	0
		PHz	0	0	130	0	100	0	7	0
P1	Tapered_Broadcast_65° for tilt4-8	Amp(voltage)	0	0.81	0	1	0	0.73	0	0.6
		PHz	0	0	0	130	0	100	0	7
P0	FullPower_Broadcast_65° for tilt0-8	Amp(voltage)	1	1	1	1	0	0	0	0
		PHz	80	57	0	137	0	0	0	0
P1	FullPowerBroadcast_65° for tilt0-8	Amp(voltage)	0	0	0	0	1	1	1	1
		PHz	0	0	0	0	80	-123	0	-43
+45	Service Beam_0° for tilt0-8	Amp(voltage)	1	0	1	0	1	0	1	0
		PHz	0	0	0	0	0	0	0	0
-45	Service Beam_0° for tilt0-8	Amp(voltage)	0	1	0	1	0	1	0	1
		PHz	0	0	0	0	0	0	0	0
+45	Service Beam_30° for tilt0-8	Amp(voltage)	1	0	1	0	1	0	1	0
		PHz	0	0	120	0	-120	0	0	0
-45	Service Beam_30° for tilt0-8	Amp(voltage)	0	1	0	1	0	1	0	1
		PHz	0	0	0	120	0	-120	0	0
+45	Service Beam_-30° for tilt0-8	Amp(voltage)	1	0	1	0	1	0	1	0
		PHz	0	0	-120	0	120	0	0	0
-45	Service Beam_-30° for tilt0-8	Amp(voltage)	0	1	0	1	0	1	0	1
		PHz	0	0	0	-120	0	120	0	0

## Electrical Specifications

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Frequency Band, MHz	817–869	2490–2690
Gain, dBi	16.3	18.3
Beamwidth, Horizontal, degrees	62	69
Beamwidth, Vertical, degrees	10.6	4.3
Beam Tilt, degrees	0–8	0–6
USLS (First Lobe), dB	19	16
Front-to-Back Ratio at 180°, dB	28	28
Isolation, Cross Polarization, dB	28	27
Isolation, Inter-band, dB	30	30
VSWR   Return loss, dB	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	50

## Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2490–2690
Gain, dBi	16.8
Beamwidth, Horizontal, degrees	68
Beamwidth, Horizontal Tolerance, degrees	±7
Beamwidth, Vertical, degrees	4.3
Beamwidth, Vertical Tolerance, degrees	±0.2
CPR at Boresight, dB	19
CPR at Sector, dB	4
Front-to-Back Total Power at 180° ± 30°, dB	25.7
Null Fill, dB	25.7

## Electrical Specifications, Service Beam

Frequency Band, MHz	2490–2690
Steered 0° Gain, dBi	23.7
Steered 0° Gain Tolerance, dBi	±0.5
Steered 0° Beamwidth, Horizontal, degrees	20
Steered 0° CPR at Beampeak, dB	22
Steered 0° Horizontal Sidelobe, dB	11
Steered 13° USLS (First Lobe), dB	5
Steered 30° Gain, dBi	21.4
Steered 30° Gain Tolerance, dBi	±1.4
Steered 30° Beamwidth, Horizontal, degrees	22

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<b>Steered 30° Horizontal Sidelobe, dB</b>	5
<b>Steered 42° Front-to-Back Total Power at 180° ± 30°, dB</b>	14

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	253.0 N @ 150 km/h (56.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	637.0 N @ 150 km/h (143.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	464 mm   18.268 in
<b>Depth, packed</b>	357 mm   14.055 in
<b>Length, packed</b>	1971 mm   77.598 in
<b>Weight, gross</b>	40.1 kg   88.405 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

## 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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# 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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