

8-port sector Planar Array Antenna, 2496–2690 MHz, 65° HPBW, 1x RET

- Excellent solution for site sharing and maximizing capacity
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- MIMO ready

OBSOLETE

This product was discontinued on: March 31, 2022

Replaced By:

T4-90A-R1-V2 Planar Array Antenna, 2300-2690 MHz, 90° HPBW, 1xIntRET

General Specifications

Antenna Type Sector

Band Single band

Calibration Connector Interface N Female

Calibration Connector Quantity

Color Light Gray (RAL 7035)

Grounding Type RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome Material PVC, UV resistant

Radiator Material Low loss circuit board

RF Connector Interface 4.1-9.5 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 8

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

COMMSCOPE®

Input Voltage 10-30 Vdc

Internal RET High band (1)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 307 mm | 12.087 in

Depth 118 mm | 4.646 in

Length 1610 mm | 63.386 in

Net Weight, without mounting kit 15.1 kg | 33.29 lb

TDD Column Spacing 75 mm | 2.953 in

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 2496 – 2690 MHz

Polarization ±45°

Total Input Power, maximum $200 \text{ W} \circledcirc 50 \text{ °C}$

Beam Forming Weights

			Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
PO	Tapered_Broadcast_65* for tilt0-3	Amp(voltage)	0.81	0	1	0	0.73	0	0.6	0
PU		PHz	0	0	115	0	100	0	0	0
	Tapered_Broadcast_65° for tilt0-3	Amp(voltage)	0	0.81	0	1	0	0.73	0	0.6
P1		PHz	0	0	0	115	0	100	0	0
PO	Tapered_Broadcast_65° for tilt4-8	Amp(voltage)	0.81	0	1	0	0.73	0	0.6	0
РО		PHz	0	0	130	0	100	0	7	0
n.	Tapered_Broadcast_65* for tilt4-8	Amp(voltage)	0	0.81	0	1	0	0.73	0	0.6
P1		PHz	0	0	0	130	0	100	0	7
no.	FullPower_Broadcast_65* for tilt0-8	Amp(voltage)	1	1	1	1	0	0	0	0
PO		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
Pi		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
+45		PHz	0	0	0	0	0	0	0	0
	Service Beam_0' for tilt0-8	Amp(voltage)	0	1	0	1	0	1	0	1
-45		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
+45		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 Beam30° for tilt0-8	Amp(voltage)	1	0	1	0	1	0	1	0
+45		PHz	0	0	-120	0	120	0	0	0
AC.	Service Beam30° for tilt0-8	Amp(voltage)	0	1	0	1	0	1	0	1
-45		PHz	0	0	0	-120	0	120	0	0

Electrical Specifications



2496-2690
18.2
66
4.8
0-8
±0.4
21
30
26
±2
0.9
7
25
1.43 15.0
-143
250

Electrical Specifications, BASTA

Frequency Band, MHz	2496-2690
Gain by all Beam Tilts, average, dBi	17.4
Gain by Beam Tilt, average, dBi	0° 17.7 4° 17.9 8° 17.7
Beamwidth, Horizontal Tolerance, degrees	±3
Beamwidth, Vertical Tolerance, degrees	±0.3
CPR at Sector, dB	9

Electrical Specifications, Broadcast 65°

Frequency Band, MHz 2496-2690



Gain, dBi 17.3

66 Beamwidth, Horizontal,

degrees

+24 Beamwidth, Horizontal

Tolerance, degrees

Electrical Specifications, Service Beam

2496-2690 Frequency Band, MHz

Steered 0° Gain, dBi 22.8 Steered 0° Gain Tolerance, dBi ±0.7

Steered 0° Beamwidth, 20

Horizontal, degrees

Steered 0° Front-to-Back 36 Total Power at 180° ± 30°, dB

Steered 0° Horizontal

Sidelobe, dB

14

7

±0.7

Steered 13° USLS (First

Lobe), dB

20.8 Steered 30° Gain, dBi

Steered 30° Gain Tolerance,

Steered 30° Beamwidth,

Horizontal, degrees

22

Steered 42° Front-to-Back Total Power at 180° ± 30°. dB

Mechanical Specifications

0°-17° **Mechanical Tilt Range**

Wind Loading @ Velocity, frontal 559.0 N @ 150 km/h (125.7 lbf @ 150 km/h) 114.0 N @ 150 km/h (25.6 lbf @ 150 km/h) Wind Loading @ Velocity, lateral Wind Loading @ Velocity, rear 677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)

241 km/h (150 mph) Wind Speed, maximum

Packaging and Weights

Width, packed 413 mm | 16.26 in Depth, packed 257 mm | 10.118 in Length, packed 1740 mm | 68.504 in Weight, gross 22.8 kg | 50.265 lb

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Regulatory Compliance/Certifications

Agency

Classification

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.

* 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

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

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





