

8-port sector Planar Array Antenna, 2496–2690 MHz, 90° 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 27, 2020

Replaced By:

T4-90A-R1 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 TypeRF 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 15.5 kg | 34.172 lb **TDD Column Spacing** 58 mm | 2.283 in **Electrical Specifications Impedance** 50 ohm **Operating Frequency Band** 2496 - 2690 MHz **Polarization** ±45° Electrical Specifications, Broadcast 65° Beamwidth, Horizontal 68° 5° Beamwidth, Vertical Beamwidth, Vertical Tolerance ±0.5° **CPR at Boresight** 17 dB Front-to-Back Total Power at 180° ± 30° 32 dB Gain 18 dBi **Null Fill** -21 dB Electrical Specifications, Single Column Beamwidth, Horizontal 96° 4.7° Beamwidth, Vertical Beamwidth, Vertical Tolerance ±0.25° **CPR at Boresight** 15 dB **CPR at Sector** 13 dB Front-to-Back Total Power at 180° ± 30° 30 dB

Gain17.2 dBiInput per Port, maximum250 WUSLS at Main Beam up to +10°18 dB

Beam Forming Weights

			Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
	Tapered_Broadcast_65° for tilt 0-8	Amp(voltage)	0.33	0	1	0	1	0	0.33	0
P0		PHz	0	0	110	0	110	0	0	0
P1	Tapered_Broadcast_65° for tilt 0-8	Amp(voltage)	0	0.33	0	1	0	1	0	0.33
		PHz	0	0	0	110	0	110	0	0
PO	FullPower_Broadcast_65° for tilt 0-8	Amp(voltage)	1	1	1	1	0	0	0	0
		PHz	60	57	0	117	0	0	0	0
	FullPowerBroadcast_65° for tilt 0-8	Amp(voltage)	0	0	0	0	1	1	1	1
P1		PHz	0	0	0	0	55	-123	0	-68
PO	Tapered_Power_Broadcast_90° for tilt 0-3	Amp(voltage)	0.52	0	1	0	0.68	0	0.43	0
		PHz	0	0	114	0	105	0	-9	0
	Tapered_PowerBroadcast_90° for tilt 0-3	Amp(voltage)	0	0.52	0	1	0	0.68	0	0.43
P1		PHz	0	0	0	114	0	105	0	-9
PO	Tapered_Power_Broadcast_90° for tilt 4-8	Amp(voltage)	0.52	0	1	0	0.68	0	0.43	0
		PHz	0	0	124	0	108	0	4	0
P1	Tapered_PowerBroadcast_90° for tilt 4-8	Amp(voltage)	0	0.52	0	1	0	0.68	0	0.43
		PHz	0	0	0	124	0	108	0	4
	Service Beam_0° for tilt 0-8	Amp(voltage)	1	0	1	0	1	0	1	0
+45		PHz	0	0	0	0	0	0	0	0
	Service Beam_0° for tilt 0-8	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 tilt 0-8	Amp(voltage)	1	0	1	0	1	0	1	0
		PHz	0	0	100	0	200	0	300	0
	2000	Amp(voltage)	0	1	0	1	0	1	0	1
-45	Service Beam_30° for tilt 0-8	PHz	0	0	0	100	0	200	0	300
	Service Beam -30° for tilt 0-8	Amp(voltage)	1	0	1	0	1	0	1	0
+45	Service Deant30 TOF tilt 0-8	PHz	0	0	-100	0	-200	0	-300	0
	0	Amp(voltage)	0	1	0	1	0	1	0	1
-45	Service Beam30° for tilt 0-8	PHz	0	0	0	-100	0	-200	0	-300

Electrical Specifications

Frequency Band, MHz	2496-2690
Gain, dBi	17.8
Beamwidth, Horizontal, degrees	96
Beamwidth, Vertical, degrees	4.7
Beam Tilt, degrees	0-8
USLS, typical, dB	18
Coupling level, Amp, Antenna port to Cal port, dB	26
Coupling level, max Amp Δ, Antenna port to Cal port, dB	±2
Coupler, max Amp Δ , Antenna port to Cal port, dB	0.9
Coupler, max Phase Δ , Antenna port to Cal port, degrees	7
CPR at 3 dB Horizontal Beamwidth, dB	14

Page 3 of 7

Isolation, Cross Polarization,

dΒ

25

VSWR | Return loss, dB 1.45 | 14.7

PIM, 3rd Order, 2 x 20 W, dBc -143

Input Power per Port,

250

maximum, watts

Mechanical Specifications

Mechanical Tilt Range 0°-17°

 Wind Loading @ Velocity, frontal
 559.0 N @ 150 km/h (125.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 114.0 N @ 150 km/h (25.6 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)

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

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
 23.3 kg | 51.368 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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

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

COMMSC PE°

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





