



APXVDGLL26EXD_43-C-I20

RF X-TREME™ Quadband XXXXpol Antenna, 694-862/880-960/1695-2690/1695-2690MHz, 65deg, 15.9/16.0/18.1/18.2dBi, 2.6m, RET, 0-10/0-10/2-12/2-12deg

This antenna is an ideal choice for quadband site upgrades for high traffic areas. It can be used for multiple bands such as Digital dividend, CDMA, GSM, DCS, UMTS, LTE 2.6 and LTE700.

FEATURES / BENEFITS

- Quadband cross-polarized (8 ports), 1x 694-862 / 1x 880-960 / 2x 1695-2690 MHz
- Ultra-broadband design for LTE 800, LTE 2600 and LTE700
- Variable electrical downtilt — provides enhanced precision in controlling intercell interference
- Tilt remotely adjustable according to AISG/3GPP standards
- Enhanced tilt range — ideal for applications in dense areas
- Enable MIMO 4x4 or 4-way RX diversity — Ideal solution for LTE advanced
- High suppression of upper sidelobes — reduces cell interference
- Sleek radome design dramatically reduces wind load — minimizes tower loading
- Quick and easy to install — reduces installation time and costs
- High reliability — designed to last in a tower top environment
- Lightning protected 5Kva



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Array (694-862 MHz) [R1] (Diplexed)	
Frequency Band	MHz	694-790	790-862
Gain	dBi	15.4	15.9
Horizontal Beamwidth @3dB	Deg	75.7+/-1.6	72.6+/-3.6
Vertical Beamwidth @3dB	Deg	8.3+/-0.6	7.6+/-0.3
Front-to-Back, at +/-30°, Total Power	dB	> 21.7	> 21.5
First Upper Side Lobe Suppression	dB	> 17.5	> 18.8
Electrical Downtilt Range	Deg	0 to 10	
3rd Order PIM 2 x 43dBm	dBc	< -153	
VSWR	-	< 1.5:1	
Return Loss	dB	> 14	
Cross Polar Isolation	dB	> 26	
Maximum Effective Power per Port	Watt	300	



APXVDGLL26EXD_43-C-I20

RF X-TREME™ Quadband XXXXpol Antenna, 694-862/880-960/1695-2690/1695-2690MHz, 65deg, 15.9/16.0/18.1/18.2dBi, 2.6m, RET, 0-10/0-10/2-12/2-12deg

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Array (880-960 MHz) [R2] (Diplexed)
Frequency Band	MHz	880-960
Gain	dBi	16.0
Horizontal Beamwidth @3dB	Deg	69.9+/-1.1
Vertical Beamwidth @3dB	Deg	6.9+/-0.3
Front-to-Back, at +/-30°, Total Power	dB	> 23.1
First Upper Side Lobe Suppression	dB	> 20.3
Electrical Downtilt Range	Deg	0 to 10
3rd Order PIM 2 x 43dBm	dBc	< -153
VSWR	-	< 1.5:1
Return Loss	dB	> 14
Cross Polar Isolation	dB	> 26
Maximum Effective Power per Port	Watt	300

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Left Array (1695-2690MHz) [Y1]				
Frequency Band	MHz	1695-1880	1850-2010	1900-2170	2300-2400	2500-2690
Gain	dBi	17.6	17.9	18.1	17.8	18.0
Horizontal Beamwidth @3dB	Deg	64.0+/-9.5	57.8+/-3.2	59.0+/-4.6	60.7+/-6.1	62.0+/-6.5
Vertical Beamwidth @3dB	Deg	5.6+/-0.3	5.4+/-0.3	5.1+/-0.5	4.6+/-0.3	4.2+/-0.2
Front-to-Back, at +/-30°, Total Power	dB	> 20.0	> 18.1	> 18.6	> 21.8	> 18.7
First Upper Side Lobe Suppression	dB	> 19.0	> 17.7	> 13.5	> 15.9	> 15.4
Electrical Downtilt Range	Deg	2 to 12				
3rd Order PIM 2 x 43dBm	dBc	< -153				
VSWR	-	< 1.5:1				
Return Loss	dB	> 14				
Cross Polar Isolation	dB	> 26				
Maximum Effective Power per Port	Watt	300				



APXVDGLL26EXD_43-C-I20

RF X-TREME™ Quadband XXXXpol Antenna, 694-862/880-960/1695-2690/1695-2690MHz, 65deg, 15.9/16.0/18.1/18.2dBi, 2.6m, RET, 0-10/0-10/2-12/2-12deg

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Right Array (1695-2690 MHz) [Y2]				
Frequency Band	MHz	1695-1880	1850-2010	1900-2170	2300-2400	2500-2690
Gain	dBi	17.6	17.9	18.2	18.0	17.8
Horizontal Beamwidth @3dB	Deg	63.0+/-9.6	57.7+/-4.4	59.3+/-4.6	61.1+/-6.3	61.6+/-4.7
Vertical Beamwidth @3dB	Deg	5.6+/-0.3	5.4+/-0.2	5.1+/-0.5	4.6+/-0.3	4.2+/-0.2
Front-to-Back, at +/-30°, Total Power	dB	> 20.5	> 18.5	> 19.9	> 21.6	> 19.7
First Upper Side Lobe Suppression	dB	> 19.2	> 16.3	> 14.0	> 15.5	> 15.4
Electrical Downtilt Range	Deg	2 to 12				
3rd Order PIM 2 x 43dBm	dBc	< -153				
VSWR	-	< 1.5:1				
Return Loss	dB	> 14				
Cross Polar Isolation	dB	> 26				
Maximum Effective Power per Port	Watt	300				

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	2769 x 340 x 200 (109 x 13.4 x 7.9)
Weight (Antenna Only)	kg (lb)	40 (88.2)
Weight (Mounting Hardware only)	kg (lb)	3 (6.6)
Packing size- HxWxD	mm (in)	2878 x 441 x 411 (113.3 x 17.4 x 16.2)
Shipping Weight	kg (lb)	47 (103.6)
Connector type		8 x 4.3-10 female at bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		ASA / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		DC Ground
Survival/Rated Wind Velocity	km/h	200 (160)
Wind Load @Rated Wind Front	N	533
Wind Load @Rated Wind Side	N	747
Wind Load @Rated Wind Rear	N	717

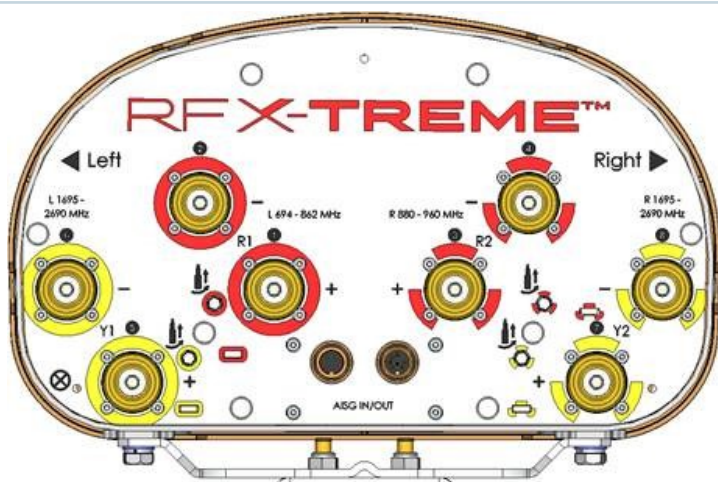
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Weight
APXVDGLL26EXD_43-C-I20	Internal RET Included	APM40-2	60-120mm	43 Kg

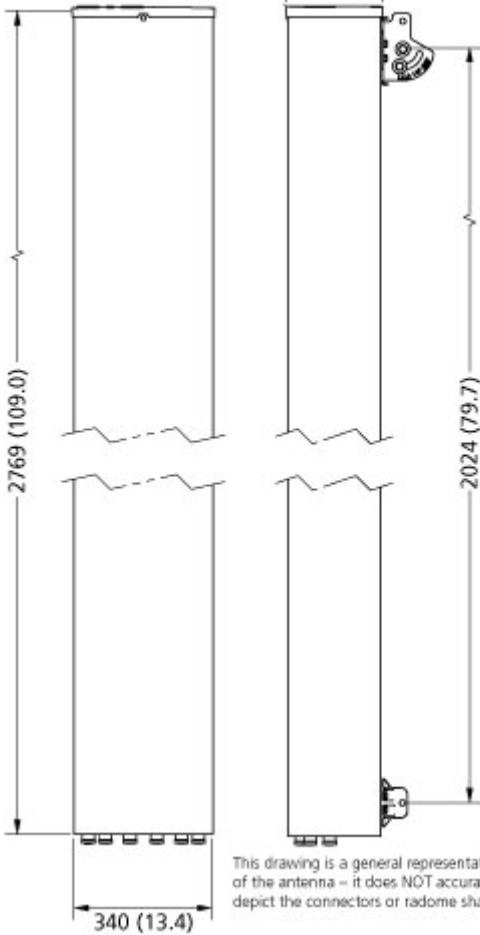


APXVDGLL26EXD_43-C-I20

RF X-TREME™ Quadband XXXXpol Antenna, 694-862/880-960/1695-2690/1695-2690MHz, 65deg, 15.9/16.0/18.1/18.2dBi, 2.6m, RET, 0-10/0-10/2-12/2-12deg



Dimensions: mm (in)



This drawing is a general representation of the antenna - it does NOT accurately depict the connectors or radome shape.



External Document Links

[APM40_Series_Installation_Instructions](#)

Notes

NOTE1: All electrical parameters are compliant with BASTA NGMN 9.6



APXVDGLL26EXD_43-C-I20

RF X-TREME™ Quadband XXXXpol Antenna, 694-862/880-960/1695-2690/1695-2690MHz, 65deg, 15.9/16.0/18.1/18.2dBi, 2.6m, RET, 0-10/0-10/2-12/2-12deg

requirements.

For additional mounting information please click ""External Document Links"".

*This datasheet is provisional and subject to changes

- **Radiating patterns:** [Request pattern files](#)