

FEATURES / BENEFITS

This antenna is an ideal choice for 4x4 MIMO applications in visually sensitive areas. It can be used for multiple bands such as DCS, PCS, UMTS and LTE 2.6.

FEATURES / BENEFITS

- Dual band cross-polarized with 2 arrays (4 ports), 2x1695-2690
- Ultra-broadband design from DCS to LTE 2600
- Variable electrical downtilt - provides enhanced precision in controlling intercell interference
- The tilt is in-field adjustable 5-18 deg
- Field Replaceable RET
- Left & Right arrays tilt together
- Enable MiMo 4x4 or 4-way RX diversity - Ideal solution for LTE advance
- Quick and easy to install - reduces installation time and costs

**Technical features****ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Left Array (1695-2690 MHz) [Y1]				
Frequency Band	Mhz	1695 - 1880	1850 - 2010	1900 - 2170	2300 - 2400	2500-2690
Polarization	-	Slant +/-45				
Impedance	Ohms	50				
3rd Order PIM 2 x 43dBm	dBc	< -153				
Maximum Effective Power per Port	Watts	200				
Gain Typical	dBi	13.7	14.0	14.1	14.6	15.0
Gain Over All Tilts	dBi	13.4+/-0.3	13.6+/-0.4	13.7+/-0.4	14.2+/-0.4	14.5+/-0.5
VSWR	-	< 1.5:1				
Return Loss	dB	> 14				
Isolation between ports	dB	> 26				
Azimuth Beamwidth 3dB	Deg	67.6+/-2.4	68.0+/-3.8	69.1+/-4.6	66.0+/-2.3	63.4+/-1.8
Front-to-Back, at +/-30 Total Power	dB	> 20.2	> 21.5	> 21.4	> 20.8	> 21.3
Elevation Beamwidth 3 dB	Deg	18.0+/-0.8	17.1+/-1.2	16.0+/-1.2	13.9+/-0.6	12.6+/-0.5
Electrical Downtilt	Deg	5 to 18				
First Upper Side Lobe Suppression	dB	> 15.6	> 21.4	> 21.1	> 21.9	> 22.5

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
Polarization	-	Slant +/-45				
Impedance	Ohms	50				
3rd Order PIM 2 x 43dBm	dBc	< -153				
Maximum Effective Power per Port	Watts	200				
Gain Typical	dBi	13.7	13.9	14.1	14.5	15.0
Gain Over All Tilts	dBi	13.4+/-0.3	13.6+/-0.3	13.8+/-0.3	14.2+/-0.3	14.5+/-0.5
VSWR	-	< 1.5:1				
Return Loss	dB	> 14				
Isolation between ports	dB	> 26				
Azimuth Beamwidth 3dB	Deg	67.9+/-3.4	68.5+/-4.7	68.1+/-4.5	65.5+/-4	63.2+/-1.4
Front-to-Back, at +/-30 Total Power	dB	> 18.4	> 19.8	> 20.7	> 21.6	> 20.5
Elevation Beamwidth 3 dB	Deg	18.1+/-1	17.1+/-1	16.0+/-1.1	14.0+/-0.8	12.7+/-0.4
Electrical Downtilt	Deg	5 to 18				
First Upper Side Lobe Suppression	dB	> 15.9	> 21.2	> 20.1	> 20.2	> 20.3

ELECTRICAL SPECIFICATIONS

Polarization	Deg	+/- 45
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MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	609 x 288 x 118 (24 x 11.4 x 4.7)
Weight (Antenna Only)	kg (lb)	6 (13)
Weight (Mounting Hardware only)	kg (lb)	4 (8.8)
Packing size- HxWxD	mm (in)	760 x 370 x 340 (30 x 14.6 x 13.4)
Shipping Weight	kg (lb)	13 (29)
Connector type		4 x 7-16 Long Neck female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		ASA / Light Grey RAL7035
Mechanical Distance between Mounting Points	mm (in)	515 (20.3)

TESTING AND ENVIRONMENTAL

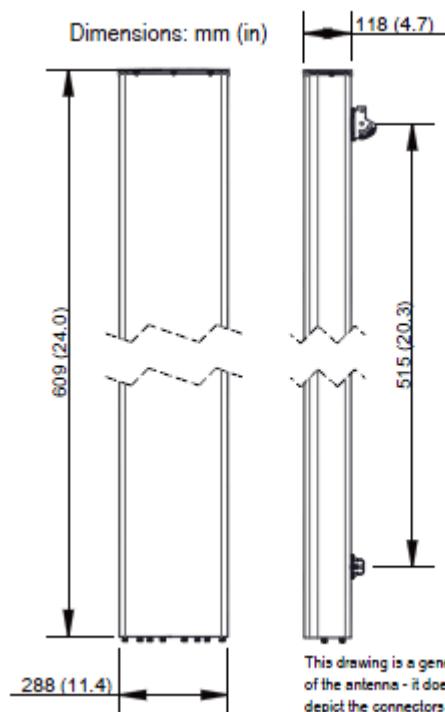
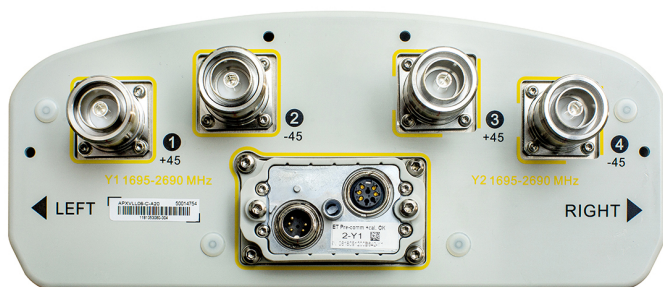
Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	240 (150)
Wind Load @Rated Wind Front	N	174
Wind Load @Rated Wind Side	N	71
Wind Load @Rated Wind Rear	N	188

ORDERING INFORMATION

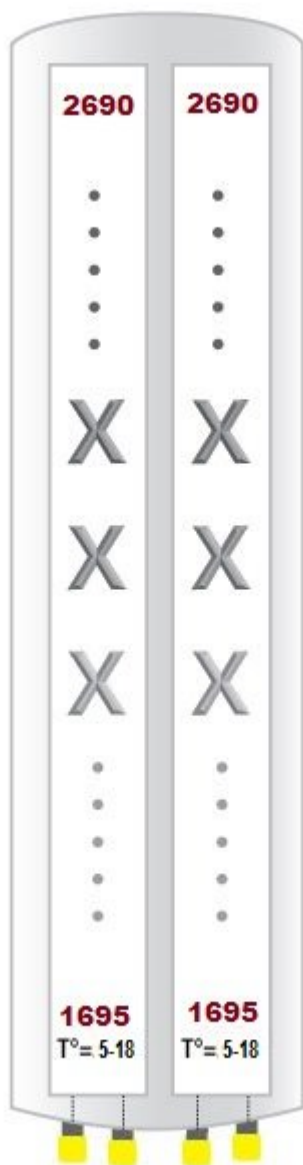
APXVLL06-C-A20	External RET Included	APM40-6	50-120mm	13 kg (29 lbs)
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APXVLL06-C-A20

RF X-TREME™ Dual Band Antenna, 2x1695-2690MHz, 65deg, 15.0dBi, 0.6m, RET, 5-18deg



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

All electrical parameters are compliant with BASTA NGMN 10.0 requirements.

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

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