



This X-Polarized variable tilt antenna provides exceptional suppression of all upper sidelobes at all downtilt angles. It also features a wide downtilt range. This antenna is optimized for performance across the entire frequency band (1710-2170 MHz).

**FEATURES / BENEFITS**

- Variable electrical downtilt - provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10 deg.
- High Suppression of all Upper Sidelobes (Typically <-20dB).
- Optional remote tilt - can be retrofitted.
- Two X-Polarized panels in a single radome.
- Dual polarization.
- Low profile for low visual impact.
- Broadband design.



**Technical features**

**ELECTRICAL SPECIFICATIONS**

<b>Frequency Range</b>	MHz	1710-1900	1900-2170
<b>Gain</b>	dBi (dBd)	17.9 (15.8)	17.7 (15.7)
<b>Horizontal Beamwidth</b>	deg	88	
<b>Vertical Beamwidth</b>	deg	5.1	4.5
<b>Electrical Downtilt Range</b>	deg	0-10	
<b>1st Upper Sidelobe Suppression</b>	dB	>18 all (Typically >20)	
<b>Upper Sidelobe Suppression</b>	dB	>18 all (Typically >20)	
<b>Front-To-Back Ratio</b>	dB	>28	
<b>Polarization</b>		Dual pol +/-45°	
<b>VSWR</b>		< 1.5:1	
<b>Isolation between Ports</b>	dB	>30	
<b>3rd Order IMP @ 2 x 43 dBm</b>	dBc	≥153	
<b>7th Order IMP @ 2x46 dBm</b>	dBc	N/A, >170	
<b>Impedance</b>	Ohms	50	
<b>Maximum Power Input</b>	W	300	
<b>Beamwidth Approximate</b>	deg	90	
<b>Frequency/Operating Band</b>		3G/UMTS (Single, Broad, Dual and Triple-Band) AWS Band (1710-1755, 2110-2155 MHz)	
<b>Antenna Type</b>		Dual Polarized	
<b>Electrical Down Tilt Option</b>		Variable	



**MECHANICAL SPECIFICATIONS**

Lightning Protection		Direct Ground
Connector Type/Location		(2) 7-16 Long Neck Female/Bottom
Dimensions - HxWxD	mm (in)	1850 x 169 x 80 (72.0 x 6.65 x 3.15)
Weight w/o Mtg Hardware	kg (lb)	11.5 (25.3)
Weight w/ Mtg Hardware	kg (lb)	14.3 (31.5)
Survival/Rated Wind Speed	km/h (mph)	200 (125) / 160 (100)
Wind Load @ Rated Wind, Front	N (lbf)	557 (125)
Wind Load @ Rated Wind, Max.	N (lbf)	557 (125)
Wind Load @ Rated Wind, Side	N (lbf)	325 (73)
Wind Load @ Rated Wind, Rear	N (lbf)	269 (60)
Mount Type		Downtilt
Height (Approximate)	ft.	6

**TESTING AND ENVIRONMENTAL**

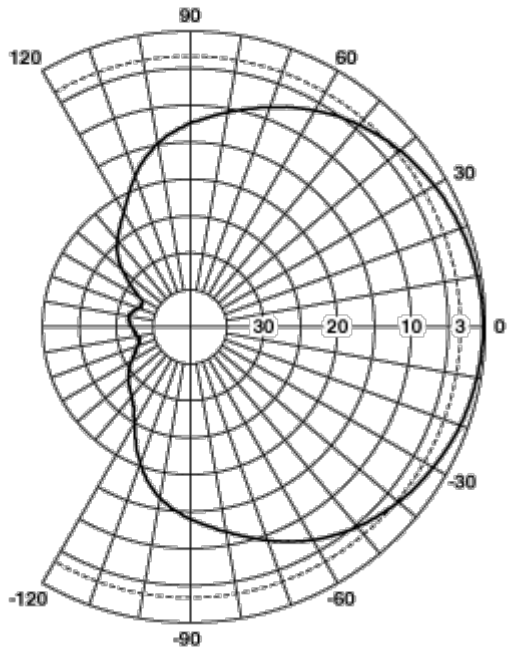
Operation temperature	°C (°F)	-40 to 60 (-40 to 140 )
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**MATERIAL**

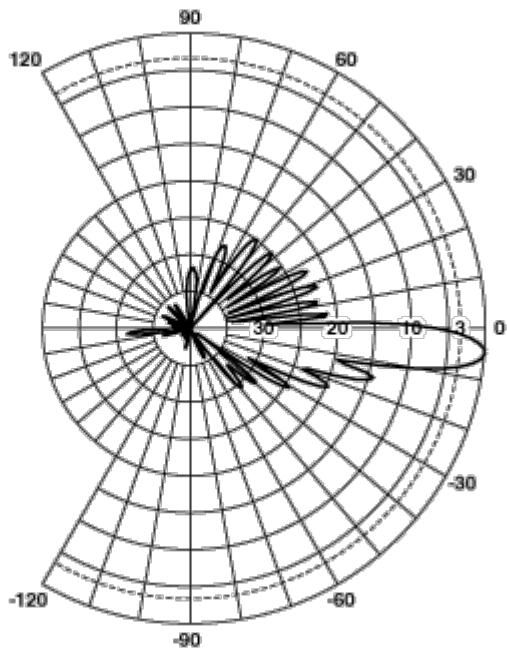
Radome Material/Color		Fiberglass/Light Grey RAL7035
Mounting Hardware Material		APM40-2
Radiating Element Material		Brass
Reflector Material		Aluminum

**ORDERING INFORMATION**

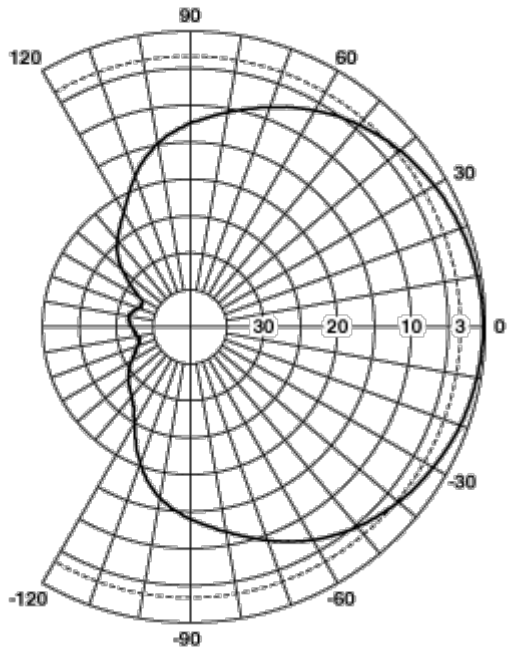
Shipping Weight	kg (lb)	17.5 (38.5)
Packing Dimensions, HxWxD	mm (in)	2020 x 260 x 200 (79.5 x 10.2 x 7.8)
Mounting Hardware		APM40-2
Mounting Pipe Diameter	mm (in)	60 - 120 (2.36 - 4.72 )
Mounting Hardware Weight	kg (lb)	3.4 (7.5)



Horizontal Pattern



Vertical Pattern



Horizontal Pattern

External Document Links

[APM40 Series Datasheet](#)

[APM40 Series Installation Instructions](#)

Notes

For additional mounting information please click "External Document Link" below.