



This side-by-side variable tilt combination antenna provides exceptional suppression of all upper sidelobes at all downtilt angles. It is ideal for 3G and 4G networks where high gain is required.

**FEATURES / BENEFITS**

- Ideal for high capacity sites and MIMO applications
- Variable electrical downtilt — provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10 deg.
- High suppression of all upper sidelobes
- Optional remote tilt — can be retrofitted
- Broadband design
- Dual polarization
- Low profile for low visual impact
- Quick and easy to adjust
- High front-to-back ratio

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

Frequency Range	MHz	1710-1850	1850-1990	1900-2200
Gain	dBi (dBd)	20.4 (18.3)	20.2 (18.1)	21.1 (19.0)
Horizontal Beamwidth	deg	34	33	33
Vertical Beamwidth	deg	7.4	7	6.5
Electrical Downtilt Range	deg	0-10		
1st Upper Sidelobe Suppression	dB	>17 @ T0° + T8°		
Front-To-Back Ratio	dB	>25 @ 180° ±15°		
Polarization		Dual pol +/-45°		
Isolation between Ports	dB	>30		
3rd Order IMP @ 2 x 43 dBm	dBc	≥153		
Cross Polar Discrimination (XPD) 0°	dB	>17		
Cross Polar Discrimination (XPD) ± 60°	dB	>10		
HBW Squint across same band ports	°	±1		
Impedance	Ohms	50		
Maximum Power Input	W	300		
Beamwidth Approximate	deg	65		
Frequency/Operating Band		PCS 1900 (1850-1990 MHz)		
Antenna Type		Dual Polarized-Side by Side		
Electrical Down Tilt Option		Variable		



**MECHANICAL SPECIFICATIONS**

Lightning Protection		Direct Ground
Connector Type/Location		(4) 7-16 Long Neck Female/Bottom
Dimensions - HxWxD	mm (in)	1375 x 576 x 118 (54.1 x 22.7 x 4.6)
Weight w/o Mtg Hardware	kg (lb)	31.8 (70)
Survival/Rated Wind Speed	km/h (mph]	240 (150) @ 0° Mechanical Tilt / 150 (93.2)
Wind Load @ Rated Wind, Front	N (lbf)	1125 (253)
Wind Load @ Rated Wind, Side	N (lbf)	126 (28)
Mount Type		Downtilt
Height (Approximate)	ft.	4.5

**TESTING AND ENVIRONMENTAL**

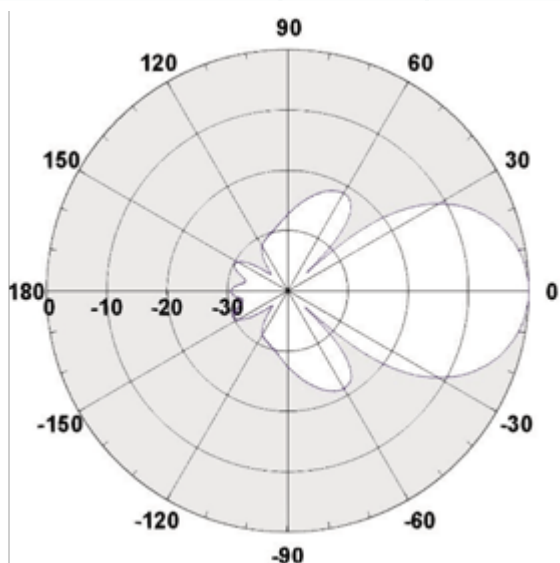
Operation temperature	°C (°F)	-40 to 60 (-40 to 140 )
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**MATERIAL**

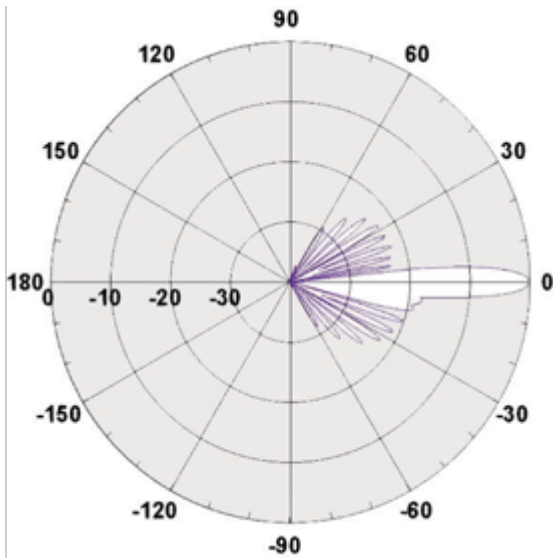
Radome Material/Color		ASA UV4B/Light Grey RAL7035
Mounting Hardware Material		APM40-1

**ORDERING INFORMATION**

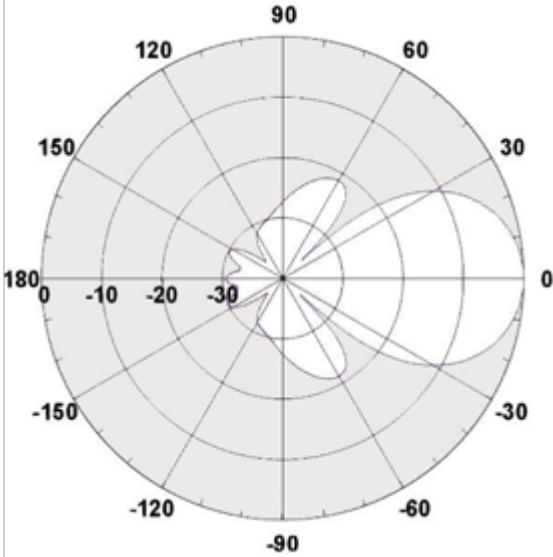
Shipping Weight	kg (lb)	40.8 (90)
Mounting Hardware		APM40-1
Mounting Pipe Diameter	mm (in)	60 - 120 (2.36 - 4.72 )



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.