



A combination of two X-Polarized antennas in a single radome, this pair of variable tilt antennas provides exceptional suppression of all upper sidelobes at all downtilt angles. It also features null fill and a wide downtilt range with optional remote tilt. This antenna is optimized for performance across the entire frequency band (1695-2200 MHz). The antenna comes pre-connected two antenna control units (ACU).



**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).
- Gain difference between UL and DL <1dB.
- Two X-Polarised panels in a single radome.
- Azimuth horizontal beamwidth difference <5deg between UL and DL (1695-1755 & 2110-2200).
- Low profile for low visual impact.
- Dual polarization; Broadband design.
- Includes (2) AISG 2.0 Compatible ACU-A20-N or ACU-A20-S antenna control units

**Technical features**

**ELECTRICAL SPECIFICATIONS**

<b>Frequency Range</b>	MHz	1695-2200
<b>Gain</b>	dBi (dBd)	19 (16.9)
<b>Horizontal Beamwidth</b>	deg	65 +/-5 (64.8 average across band)
<b>Vertical Beamwidth</b>	deg	4.3 to 5.6
<b>Electrical Downtilt Range</b>	deg	0-10
<b>1st Upper Sidelobe Suppression</b>	dB	Typically > 20
<b>Upper Sidelobe Suppression</b>	dB	Typically > 20
<b>Front-To-Back Ratio</b>	dB	> 25 (Typically 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	> 150 (155 Typical)
<b>7th Order IMP @ 2x38 dBm</b>	dBc	> 170
<b>Impedance</b>	Ohms	50
<b>Maximum Power Input</b>	W	300
<b>Beamwidth Approximate</b>	deg	65
<b>Frequency/Operating Band</b>		3G/UMTS (Single, Broad, Dual and Triple-Band) AWS Band (1695-1755, 2110-2200 MHz)
<b>Antenna Type</b>		Dual Polarized-Side by Side
<b>Electrical Down Tilt Option</b>		Variable



**MECHANICAL SPECIFICATIONS**

Lightning Protection		Direct Ground
Connector Type/Location		(4) 7-16 Long Neck Female/Bottom
Dimensions - HxWxD	mm (in)	1925 x 331 x 80 (75.8 x 13 x 3.15)
Weight w/o Mtg Hardware	kg (lb)	25 (55)
Weight w/ Mtg Hardware	kg (lb)	25.5 (55.9)
Survival/Rated Wind Speed	km/h (mph]	200 (125) / 160 (100)
Applied Wind Load Standard		DIN 1055-4
Wind Load @ Rated Wind, Front	N (lbf)	1026 (230)
Wind Load @ Rated Wind, Max.	N (lbf)	1026 (230)
Wind Load @ Rated Wind, Side	N (lbf)	314 (70)
Wind Load @ Rated Wind, Rear	N (lbf)	554 (124)
Mount Type		Downtilt Kit w/Scissor Kit
Height (Approximate)	ft.	6.25

**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 + APM40-E2
Radiating Element Material		Brass
Reflector Material		Aluminum

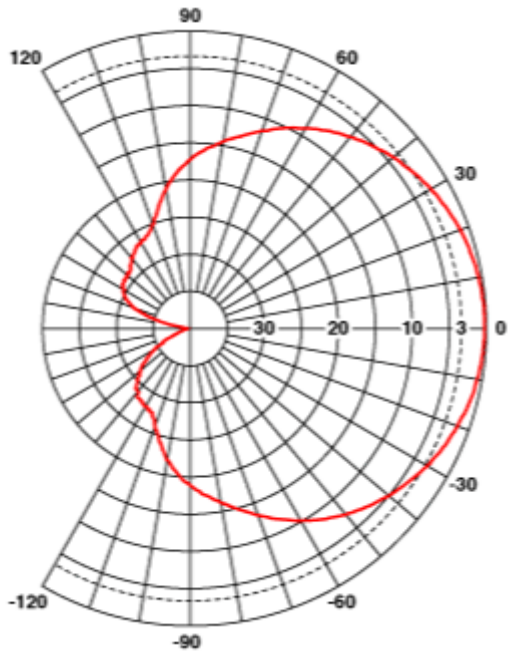
**ORDERING INFORMATION**

Shipping Weight	kg (lb)	31 (68.2)
Packing Dimensions, HxWxD	mm (in)	2015 x 380 x 197 (79.3 x 15 x 7.8)
Mounting Hardware		APM40-2 + APM40-E2
Mounting Pipe Diameter	mm (in)	60 - 120 (2.36 - 4.72 )
Mounting Hardware Weight	kg (lb)	3.5 (7.7)

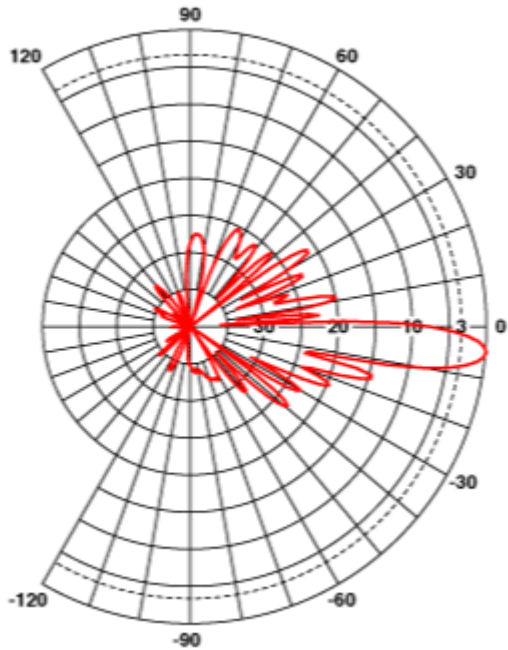


**APX17DWV-17DWVS-E-A20**

Optimizer® Side-by-Side Dual Polarized Antenna, 1695-2200, 65deg, 19dBi, 1.9m, VET, 0-10deg RET



Horizontal Pattern

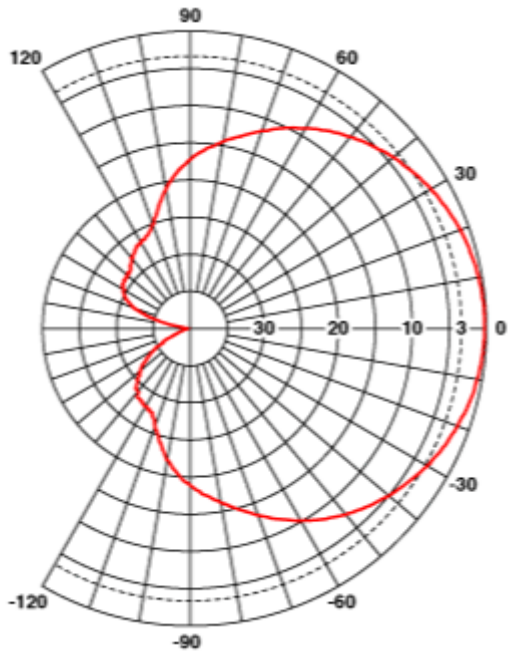


Vertical Pattern



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Horizontal Pattern

External Document Links

[APM40 Series Datasheet](#)

[APM40 Series Installation Instructions](#)

Notes

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