



Optimizer® Cellular Dual Polarized Antenna, 806-960, 65deg, 17dBi, 2m, FET, 0deg

These antennas are manufactured with premium quality materials to ensure superior performance. The microstripline feed system consists of monolithic aluminum construction allowing for minimal welded joints to reduce the possibility of intermodulation problems, minimal power losses to increase the antenna gain and perfect production reliability and repeatability. Each antenna features a lightweight, one-piece panel construction for ease of installation, reducing handling cost. All aluminum components are treated to minimize corrosion, assuring reliable operation in icing, salt air and rain conditions. This antenna series is specifically designed to provide premium network performance delivering cost efficient network capacity. They are ideal for CDMA applications and GSM 900 network coverage and optimization.



FEATURES / BENEFITS

- Rugged construction — For high reliability
- Low PIM — No system down-time, high call quality and reduced number of dropped calls
- Dual Polarized — Optimize RX performances
- Excellent upper sidelobe suppression — Allows strong mechanical tilt
- High gain — Provides better coverage
- Wideband Frequency Performance — Enables future growth and increases flexibility

Technical Features

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	806-896	870-960
Gain	dBi (dBd)	16.6 (14.5)	17.0 (14.9)
Horizontal Beamwidth	deg	65	65
Vertical Beamwidth	deg	10	9.5
Electrical Downtilt Range	deg	0	
1st Upper Sidelobe Suppression	dB	> 18	
Upper Sidelobe Suppression	dB	> 18	
Front-To-Back Ratio	dB	> 28	
Polarization		Dual pol +/-45°	
VSWR		< 1.4:1	
Isolation between Ports	dB	> 30	
3rd Order IMP @ 2 x 43 dBm	dBc	> 150	
Impedance	Ohms	50	
Maximum Power Input	W	500	

MECHANICAL SPECIFICATIONS

Lightning Protection		Direct Ground
Connector Type/Location		(2) 7-16 Long Neck Female/Bottom
Dimensions - HxWxD	mm (in)	2097 x 317 x 137 (82.6 x 12.5 x 5.4)
Weight w/o Mtg Hardware	kg (lb)	13 (28.7)
Weight w/ Mtg Hardware	kg (lb)	16.4 (36.2)
Survival/Rated Wind Speed	km/h (mph)	200 (125) / 160 (100)
Wind Load @ Rated Wind, Front	N (lbf)	878 (197.4)
Wind Load @ Rated Wind, Rear	N (lbf)	946 (212.7)

TESTING AND ENVIRONMENTAL

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

Radome Material/Color		PVC/Light Grey
Mounting Hardware Material		Diecasted Aluminum and Galvanized Steel
Reflector Material		Aluminum

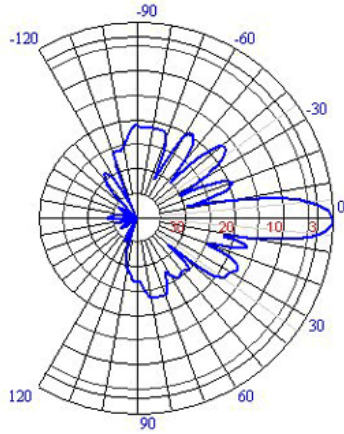
ORDERING INFORMATION

Shipping Weight	kg (lb)	19 (41.9)
Packing Dimensions, HxWxD	mm (in)	2180 x 350 x 235 (85.8 x 13.8 x 9.3)
Mounting Hardware		APM40-2
Mounting Pipe Diameter	mm (in)	60 - 120 (2.36 - 4.72)

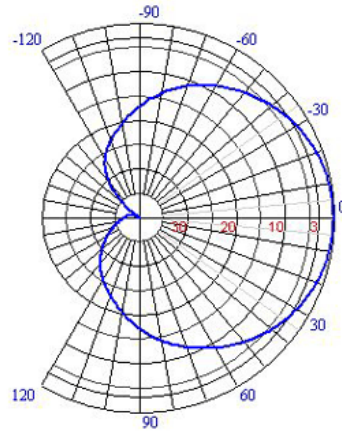


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Mounting Hardware Weight	kg (lb)	3.4 (7.5)
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Vertical Pattern



Horizontal Pattern

External Document Links

- [APM40 Series Datasheet](#)
- [APM40 Series Installation Instructions](#)

Notes

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