



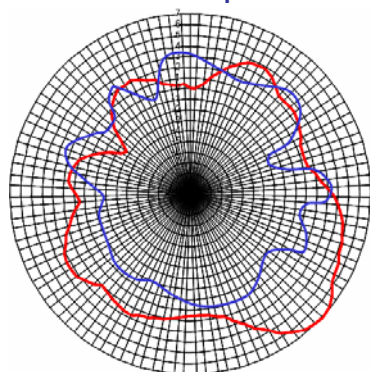
The embedded Profile30 antenna solution delivers greater performance than external dipole antennas with a simple on-board design

Profile30 Antenna

Embedded antenna system for access points, routers & gateways

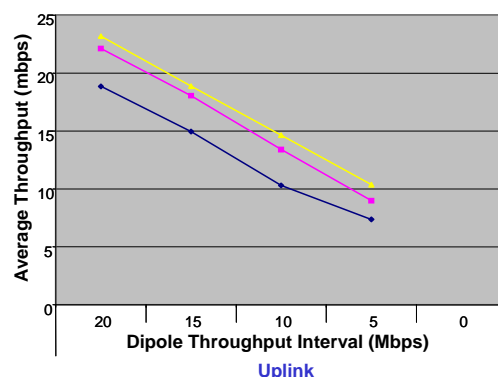
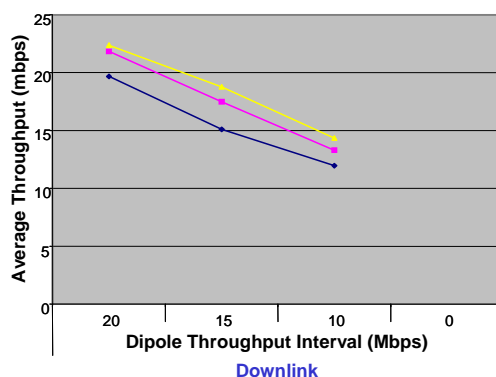
Using Airgain's patented technology, the Profile30 antenna provides a high gain, on-board antenna solution for Wi-Fi and ISM band applications. As embedded antenna solutions become the focus of next generation wireless product design, the Profile30 provides the flexibility of an embedded antenna without sacrificing performance. In comparative performance testing using a typical wireless router, a Profile30 antenna-based system provided up to 5mbps greater throughput (orientation dependent) than the same router using a conventional external dipole antenna. The Profile30 antenna was designed to accommodate most WLAN access point applications, such as routers and gateways, with a low-cost, low profile, and enhanced performance design.

Profile30 v. Dipole



— Profile30
— External Dipole

Throughput Comparison: Profile30 System vs. External Dipole



Features

-))) Supports 802.11b/g and n applications
-))) Up to 6dBi of peak gain
-))) Low cost, low profile design

Benefits

-))) Eliminates external dipole antennas without sacrificing performance
-))) Simplify product design and improve time to market
-))) Superior performance in both vertical and horizontal orientations

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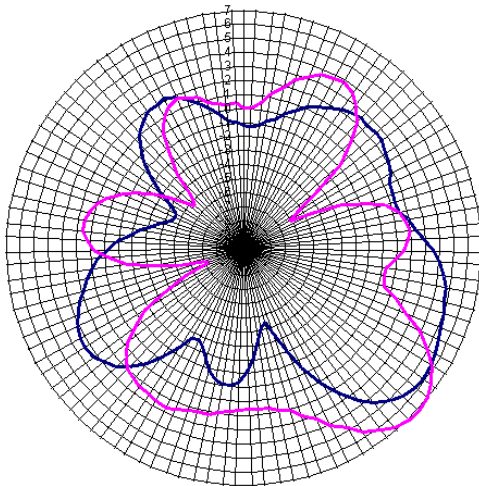
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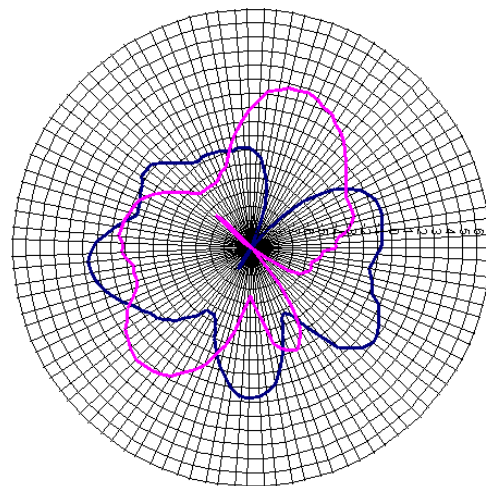
Product Specifications

Standard	IEEE 802.11 b/g/n
Frequency Band	2.4 to 2.497 GHz
Peak Gain	6.0 dBi
VSWR	2.0:1 Max
Polarization	Linear, diagonal
Dimensions	71.3 x 2 x 14.6 mm
Feed Impedance	50 Ohms
Power Handling	30 dBm
Mounting	Standard through-hole mounting
Temperature	Operating: 0 to 60°C; Storage -20 to 70°C
Humidity	Operating: 0 to 70%; Storage 0 to 95% non-condensing
Compliance	FCC Part 15 Class B; RoHS compliant
Chipsets	Available for use with all major chipsets

Azimuth



Elevation



Profile30 Diversity



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