

Profile20 Embedded Antenna

High gain embedded antenna for 2.4GHz devices



The Profile20 2.4GHz embedded antenna delivers greater performance than external dipole antennas with a simple embeddable design

The Airgain Profile20 is a compact 2.4GHz high gain directional antenna that provides up to 3.8dBi of peak gain. As embedded antenna solutions become the focus of next generation wireless product design, the Profile20 provides the flexibility of an embedded antenna with top performance. Designed to provide peak performance for routers, gateways and client devices, the Profile20 provides up to 100% greater signal strength than a conventional dipole antenna. The Profile20 is compatible with all 802.11b/g and 802.11n standard equipment. The antenna can be easily integrated into existing form factors, eliminating the need for external antennas and ports while providing superior performance.

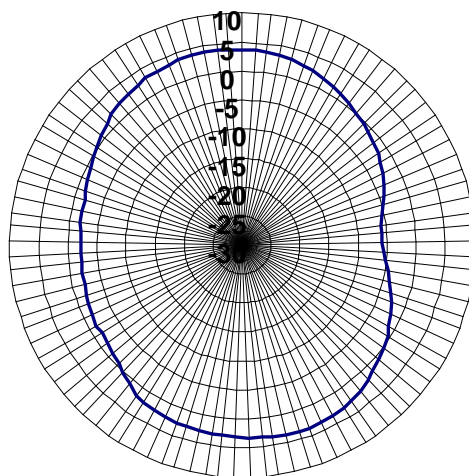
Features

-))) Fully compatible with 802.11b/g and 802.11n equipment
-))) Peak gain of 3.8dBi
-))) On-board or case mount can be easily integrated into existing form factors

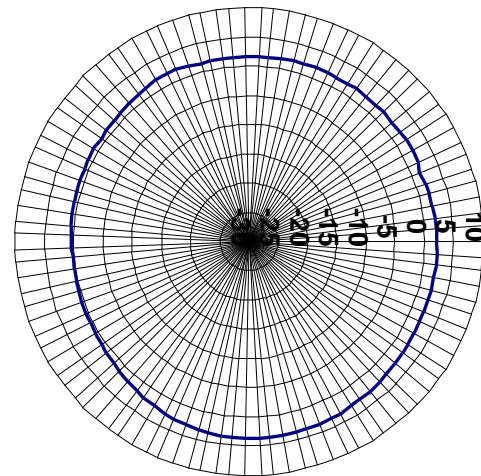
Benefits

-))) Eliminates external dipole antennas without sacrificing performance
-))) Can be mounted on external case, simplifying ID design and shortening product development cycle
-))) Superior performance in both vertical and horizontal orientations

Azimuth



Elevation



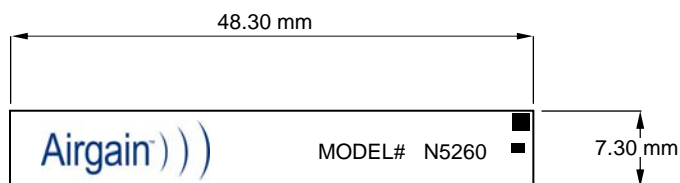
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Product Specifications

Standard	IEEE 802.11a and 802.11n
Frequency Band	2.4 to 2.49 GHz
Peak Gain	3.8 dBi (excludes 1dB cable loss)
VSWR	2:1 Max
Polarization	Linear, vertical
Dimensions	48.3L x 7.3H x 0.6W mm
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	One set of soldering pads for 50 ohm, 1.13mm diameter, micro coax cable
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

Mechanical Dimensions



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