



The Profile560 5GHz embedded antenna delivers greater performance than external dipole antennas with a simple embeddable design

## Profile560 Embedded Antenna

*High gain embedded antenna for 5GHz devices*

The Airgain Profile560 is a 5GHz high gain directional antenna that provides up to 6.0dBi of peak gain. As embedded antenna solutions become the focus of next generation wireless product design, the Profile560 provides the flexibility of an embedded antenna with top performance. Designed to provide peak performance for routers, gateways and client devices, the Profile560 provides up to 150% greater signal strength than a conventional dipole antenna. The Profile560 is compatible with all 802.11a and 802.11n standard equipment. The complete antenna sub-subsystem can be easily integrated into existing form factors, eliminating the need for external antennas and ports while providing superior performance.

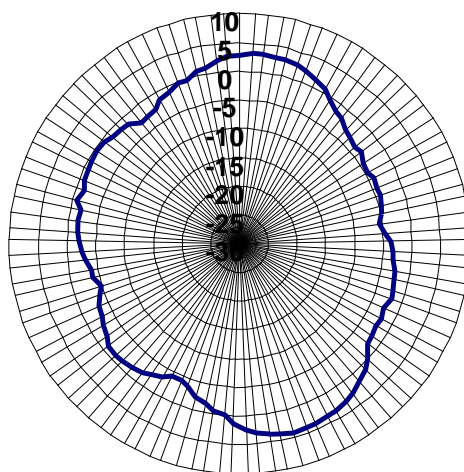
### Features

- ))) Fully compatible with 802.11a and 802.11n equipment
- ))) Peak gain of 6dBi
- ))) On-board or case mount can be easily integrated into existing form factors

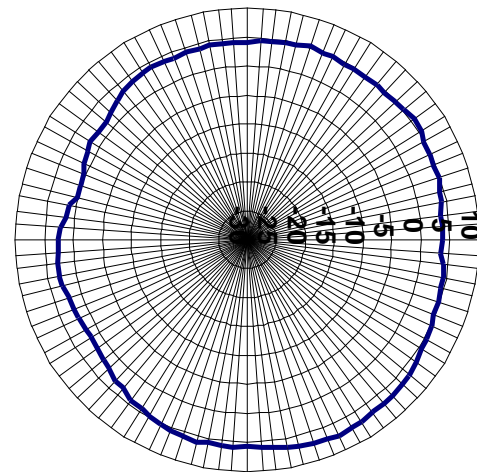
### Benefits

- ))) 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**



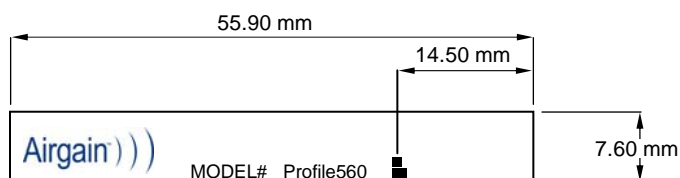
**Airgain USA**  
 sales@airgain.com  
 1930 Palomar Point Way, Suite 107  
 Carlsbad, CA, 92008  
 +1 760 579 0200

**Airgain Taiwan**  
 asiasales@airgain.com  
 2F, No. 183, Zhouzi St., Neihu District  
 Taipei City 114 Taiwan (R.O.C.)  
 +88 622 659 8846

## Product Specifications

Standard	IEEE 802.11a and 802.11n
Frequency Band	4.9 to 5.65 GHz
Peak Gain	6.0 dBi (excludes 1dB cable loss)
VSWR	2:1 Max
Polarization	Linear, vertical
Dimensions	56L x 7.5H x 0.8W mm
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	Soldering pads on the front or back of antenna for one 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



Information in this document is provided in connection with Airgain™ products. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in Airgain's Terms and Conditions of Sale for such products, Airgain assumes no liability whatsoever, and Airgain disclaims any express or implied warranty, relating to sale and/or use of Airgain products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Airgain may make changes to specifications and product descriptions at any time, without notice. For the most current product information, please visit:

[www.airgain.com](http://www.airgain.com)

Copyright © 2007, Airgain, Inc. All rights reserved.  
Airgain and the Airgain logo are trademarks of Airgain, Inc.  
DS/Pro560/1107