

Airgain™)))

Available Part Numbers\*  
 N5220  
 N5220-100  
 N5220-100U  
 N5220-100C



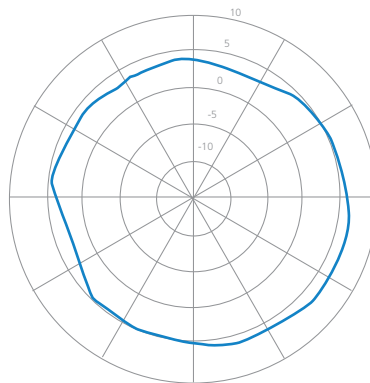
## Profile 520 Antenna

High gain embedded antenna for 5GHz devices

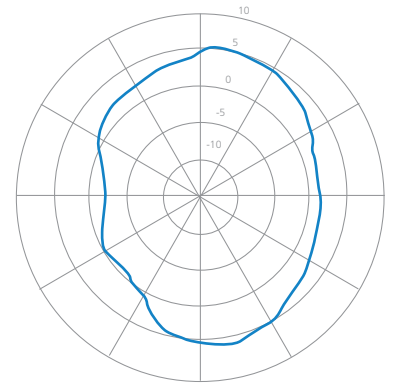
The Airgain Profile520, a 5GHz PCB antenna, provides up to 3.8dBi of peak gain. As embedded antenna solutions become the focus of next generation wireless product design, the Profile520 offers the flexibility of an embedded antenna with top performance. Designed to provide peak performance for routers, gateways and client devices, the Profile520 is compatible with all 802.11a and 802.11n standard equipment. The complete antenna subsystem can be easily integrated into existing form factors, eliminating the need for external antennas and ports while providing superior performance.

### ANTENNA RADIATION PATTERNS

AZIMUTH



ELEVATION



### FEATURES

- Fully compatible with 802.11a and 802.11n equipment
- Peak gain of 3.8dBi, excluding cable loss
- 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

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

**Airgain Taiwan**  
 asiasales@airgain.com  
 7F, No. 506, Syecian Road  
 Shulin City, Taipei County 23853  
 Taiwan, R.O.C.  
 +2 2929 4460

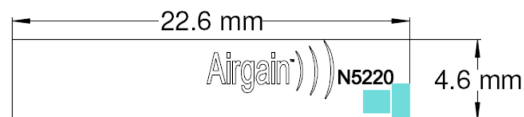
\*Part # Extensions:

###: cable length in mm (custom lengths avail.) U: includes U.FL connector(s) C: Ferrite Core with U.FL connector(s)

Expanding the Range of Wireless Possibilities

PRODUCT SPECIFICATIONS	
Standard	IEEE 802.11a and 802.11n
Frequency Band	4.9 to 5.85 GHz
Peak Gain	3.8 dBi (excludes 1dB cable loss)
VSWR	2:1 Max
Polarization	Linear, vertical
Dimensions	23L x 5H x 0.8W mm
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	One set of soldering pads 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 ©2009. Airgain, Inc. All rights reserved. Airgain and the Airgain logo are trademarks of Airgain, Inc. DS/Pro520/0309