

# Airgain®))

**Available Part Numbers\***

- N2420
- N2420-100
- N2420-100U
- N2420-100C



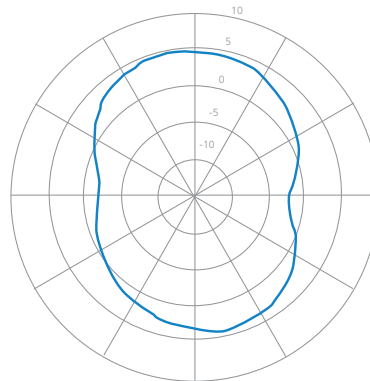
## Profile 20 Antenna

High gain embedded antenna for 2.4 GHz devices

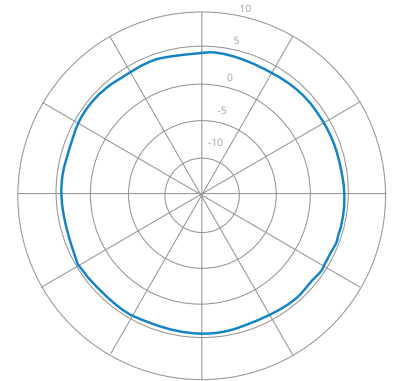
The Airgain Profile20, a compact 2.4GHz high gain directional antenna, provides up to 3.8dBi of peak gain and up to 100 percent greater signal strength than a conventional dipole antenna. The Profile20 is compatible with all 802.11b/g and 802.11n standard equipment and can easily be integrated into existing form factors, eliminating the need for external antennas and ports while providing superior performance.

### ANTENNA RADIATION PATTERNS

**AZIMUTH**



**ELEVATION**



### FEATURES

- Fully compatible with 802.11b/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

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**\*Part # Extensions:**

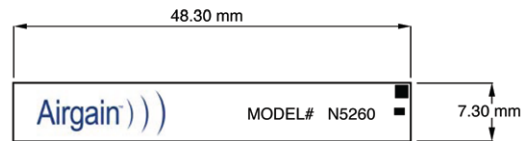
###: cable length in mm (custom lengths avail.) U: includes U.FL connector(s) C: Ferrite Core with U.FL connector(s)

**Expanding the Range of Wireless Possibilities**



PRODUCT SPECIFICATIONS	
Standard	IEEE 802.11a and 802.11n
Frequency Band	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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