



Profile40DC Embedded Antenna

High gain Dual Band, Dual Feed antenna for MIMO devices

The Airgain Profile40DC is a high gain dual band, dual feed antenna that provides up to 4.0dBi of peak gain. Designed to provide peak performance for routers, gateways and client devices, the Profile40DC provides the flexibility of an embedded antenna with top performance. It's unique dual feed structure supports concurrent, dual band transmission in the 2.4GHz and 5GHz bands. The complete Profile40DC antenna sub-subsystem can be easily integrated into existing form factors, eliminating the need for external antennas and ports while providing superior performance..

The Profile40DC dual band antenna's unique dual feed architecture supports concurrent transmission in the 2.4GHz and 5GHz bands

Features

-))) Fully compatible with 802.11b/g/a and 802.11n equipment
-))) Peak gain 4.0dBi at 2.4GHz; 3.5dBi at 5.2GHz
-))) On-board or case mount can be easily integrated into existing form factors

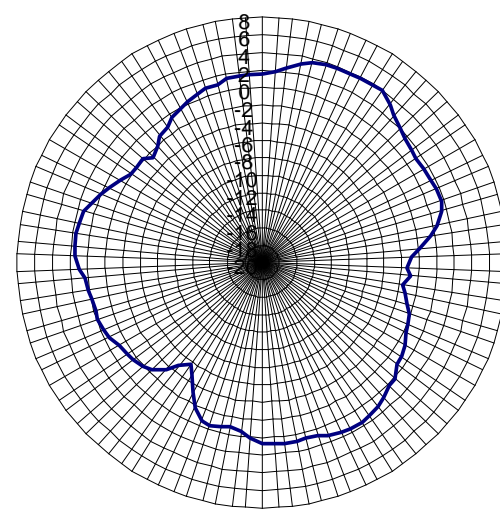
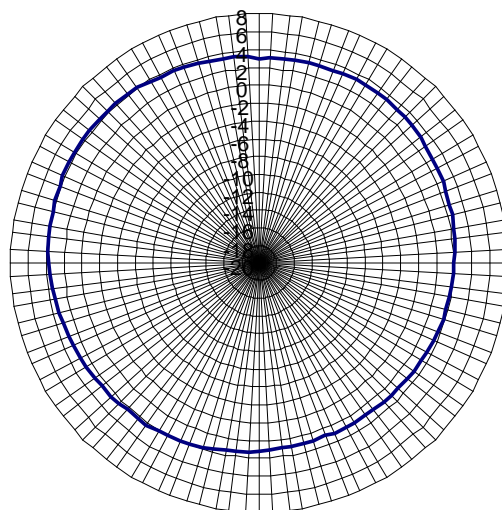
Benefits

-))) 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

2.4GHz

Azimuth

5.8GHz



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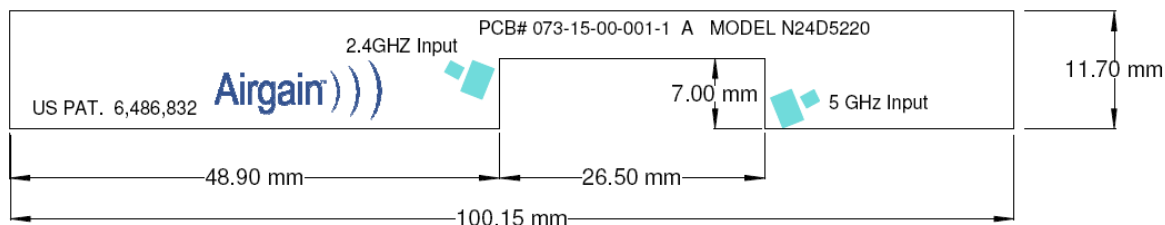
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Product Specifications

Standard	IEEE 802.11b/g/a and 802.11n
Frequency Band	2.4 to 2.49 GHz and 4.9 to 5.7 GHz
Peak Gain	4.0 dBi @2.44GHz, 3.5 dBi @5.2GHz (pre-cable loss)
VSWR	2:1 Max
Polarization	Linear, vertical
Dimensions	100L x 12W x 1H mm
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	Two sets 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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DS/Pro40DC/0108