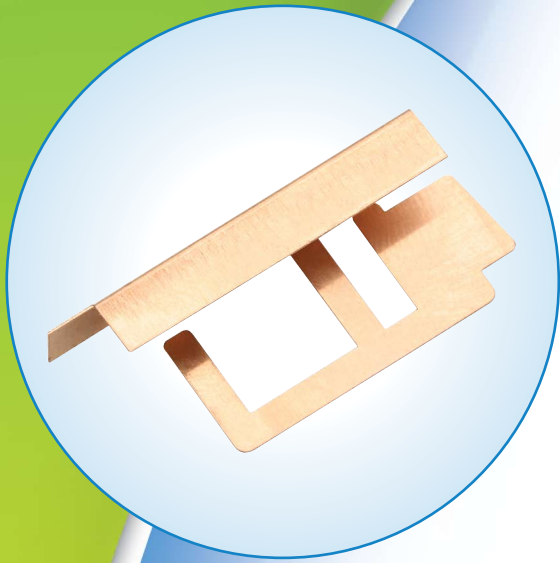


# Airgain)))

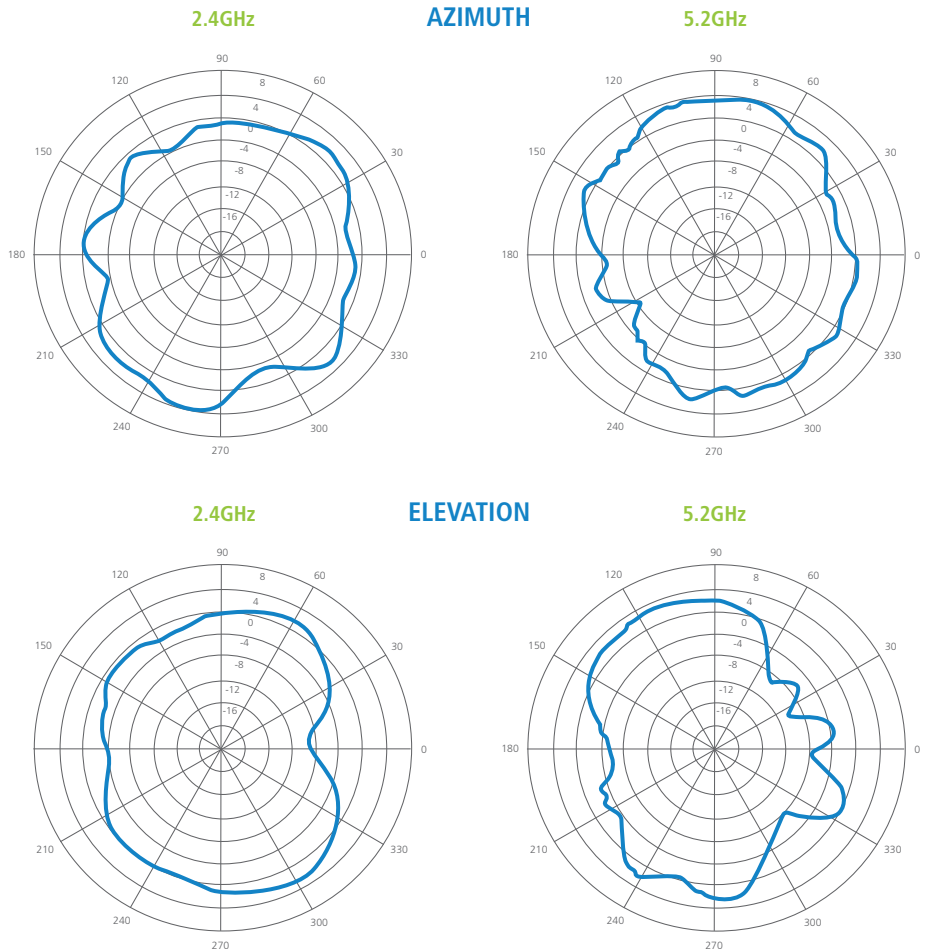


## Ultra 45D Antenna

High gain, stamped metal dual-band embedded antenna for easy integration

Based on Airgain's patented technology, the Ultra 45D dual band embedded antenna provides a high efficiency, embedded antenna solution for Wi-Fi and ISM band applications. As embedded antenna solutions become the focus of next generation wireless product design, the Ultra 45D provides the flexibility of an embedded antenna with top performance. This antenna was designed to accommodate most WLAN access point applications, such as routers and gateways. The Ultra 45D can be easily integrated on to a PC board or into an ID design.

### ANTENNA RADIATION PATTERNS



#### FEATURES

- 802.11 a/b/g/n standard-compatible
- On-board mount or case mounting
- 4 dBi peak gain, 1dB cable loss excluded

#### BENEFITS

- Eliminates external dipole
- Enables quick integration
- Achieves high efficiency

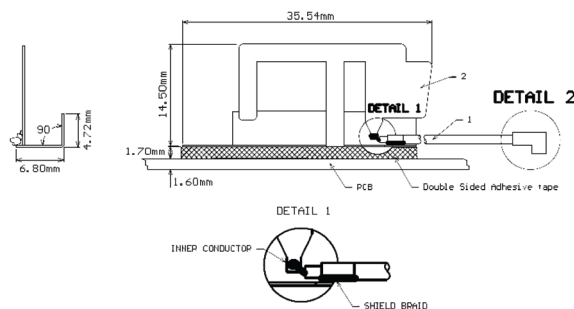
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Expanding the Range of Wireless Possibilities

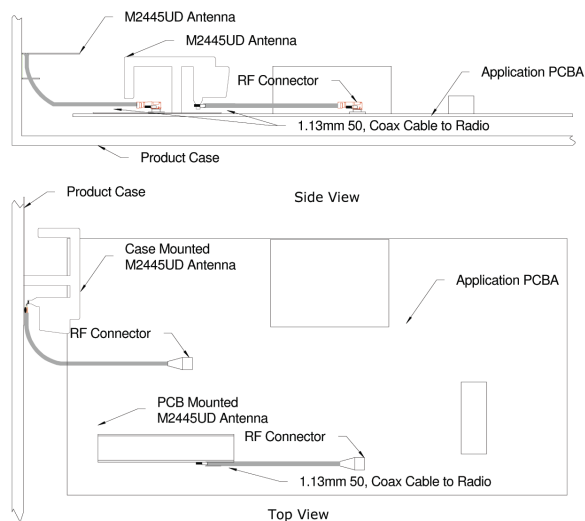
PRODUCT SPECIFICATIONS	
Standard	IEEE 802.11a/b/g/n
Frequency Band	2.4 to 2.49 GHz, 4.9 to 5.7GHz
Peak Gain	4.0 dBi @2.44GHz, 3.7 dBi @5.2GHz, 1 dB cable losses excluded
VSWR	2:1 Max
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	Soldering pads for 50 ohm, 1.13mm diameter, micro coax cable
Dimensions	6.8 x 14.5 x 35.5 (mm)
Weight	1 g (0.04 oz)

## MECHANICAL DIMENSIONS



## MOUNTING

Ultra 45D antennas can be simply mounted on a printed circuit board. This simplifies ID design and also shortens product cycle. To maximize performance, an air gap of 1.6mm between the Ultra 45D antenna and the mounting surface of the customer's plastic case is required.



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