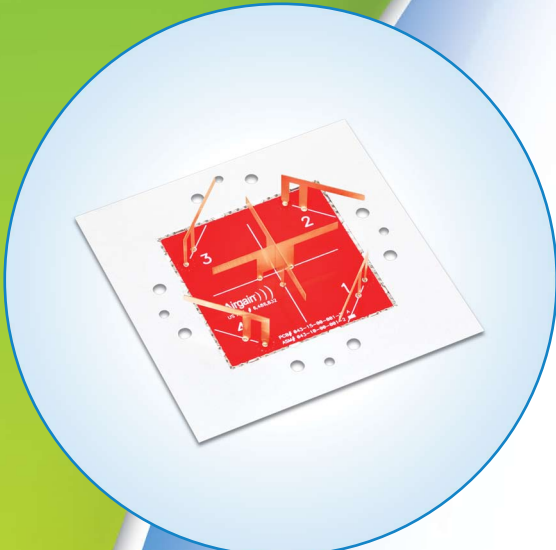


Airgain)))

Available Part Numbers*
 N2465
 N2465-100
 N2465-100U
 N2465-100C



MaxBeam 65N Antenna

MaxBeam65N smart antenna for MISO and 2 and 4 radio MIMO systems

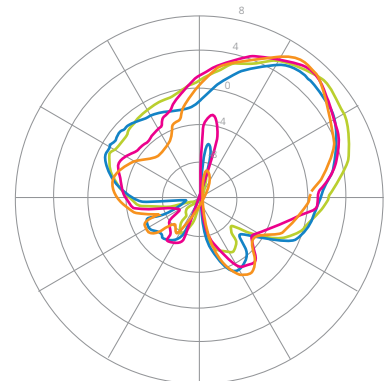
The MaxBeam65N MIMO smart antenna utilizes patented beam forming technology to deliver up to double the signal strength and receive sensitivity than conventional dipole solutions. The MaxBeam65N antenna's unprecedented performance is derived by combining the benefits of four high gain directional antenna elements with high isolation between each element. This directionality and high isolation improves the SNR in MIMO channels while enhancing channel modes, thereby increasing the range and throughput of 802.11n devices. Its unique design also allows for integration inside access points, routers and gateways, eliminating the need for external antennas.

ANTENNA RADIATION PATTERNS

AZIMUTH



ELEVATION



FEATURES

- Four element/four cable directional MIMO antenna (patent pending)
- Peak gain of 6.5dBi
- Four individual antenna beams provide 360 degrees of coverage
- Compatible with 802.11n draft standard chipsets in 2x2 and 4x4 combinations

BENEFITS

- Provides faster throughput, reduced dead spots and increased wireless range
- Offers extended range without increasing radiated power
- Delivers superior horizontal and vertical coverage optimized for indoor performance
- Antenna and subsystem can be easily integrated into new and existing form factors

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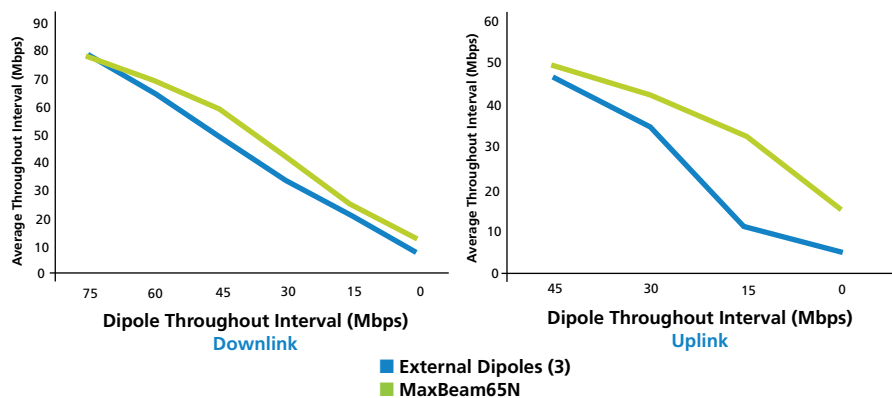
*Part # Extensions:
 ###: cable length in mm (custom lengths avail.) U: includes U.FL connector(s) C: Ferrite Core with U.FL connector(s)

Expanding the Range of Wireless Possibilities

PRODUCT SPECIFICATIONS	
Standard	IEEE 802.11n (Draft), 802.11b/g
Frequency Band	2.4 to 2.497 GHz
Peak Gain	6.5 dBi 6.5 dBi
VSWR	1.6:1 Max
Polarization	Linear, vertical
Dimensions	90 x 90 x 15 (mm)
Weight	40 g (1.41oz)
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	Four RF Cables via U.FL connectors or solder
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
Chipsets	Available for all major Draft-N and MIMO chipsets

THROUGHPUT COMPARISON

MaxBeam65N System vs. External Dipoles



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