

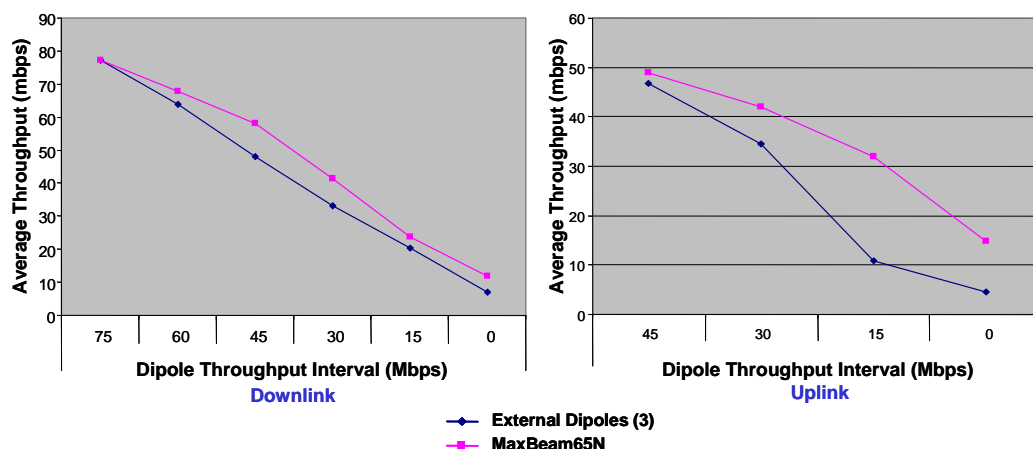
The MaxBeam65N delivers greater performance from MIMO systems while eliminating the need for external dipole antennas

## MaxBeam65N Smart Antenna

*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 200 percent greater 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. The MaxBeam65N is compatible with existing draft-N systems in 2x2 and 4x4 configurations and will support all future 802.11n standard applications.

### Throughput Comparison: MaxBeam65N System vs. External Dipoles



### Features

- ))) 4 Element/4 Cable Directional MIMO Antenna (Patent Pending)
- ))) Peak gain of 6.5dBi
- ))) 4 individual antenna beams provide 360° coverage
- ))) Compatible with 802.11n draft standard chipsets in 2x2 and 4x4 combinations

### Benefits

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

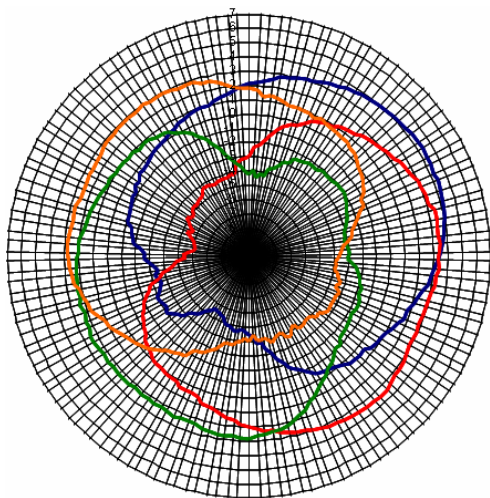
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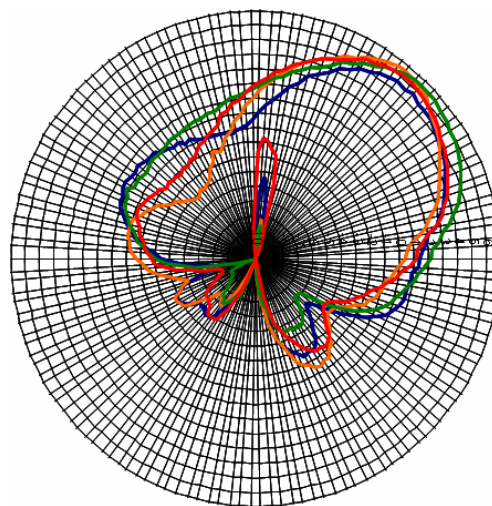
## Product Specifications

Standard	IEEE 802.11n (Draft), 802.11b/g
Frequency Band	2.4 to 2.497 GHz
Peak Gain	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 sodder
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

**Azimuth**



**Elevation**



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