

Airgain )))

Available Part Numbers\*  
 N5X35  
 N5X35-100  
 N5X35-100U  
 N5X35-100C

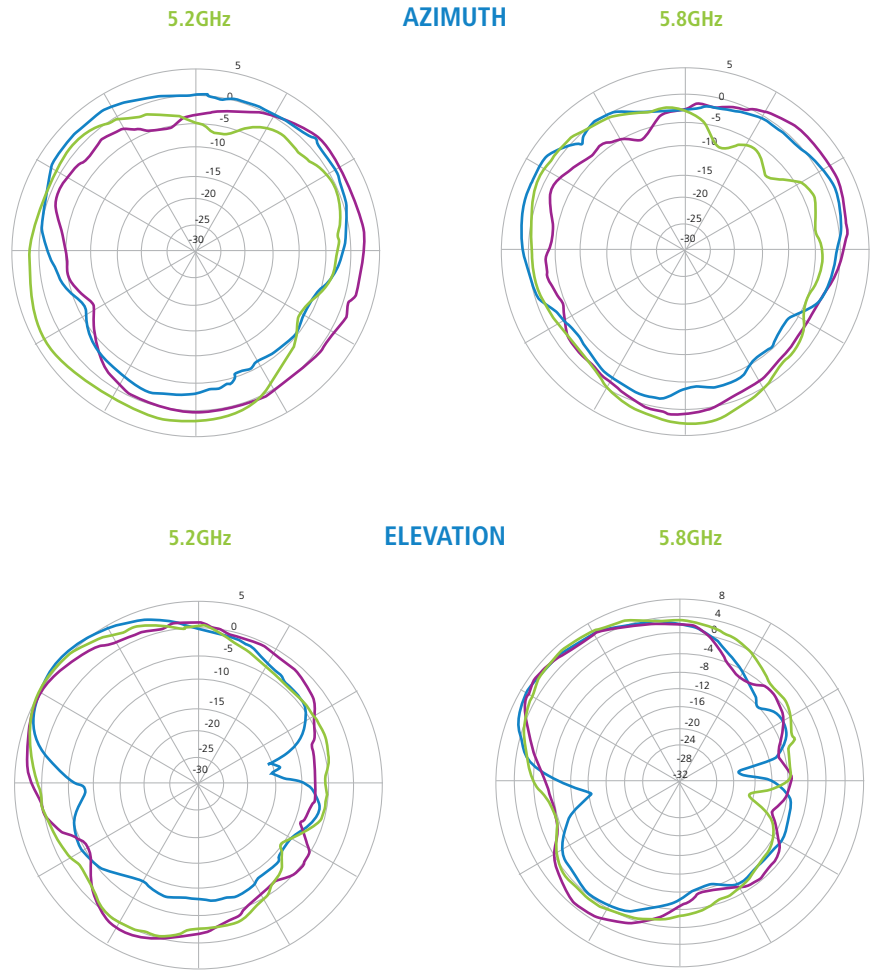


## MaxBeam 555 Antenna

Smart directional antenna for 802.11b/g and 802.11n systems

The MaxBeam 555 MIMO antenna utilizes multi-element directional antenna technology to deliver greater signal strength and receive sensitivity than conventional solutions based on dipole antennas. The superior performance of the MaxBeam 555 antenna is derived by combining the benefits of three high gain directional antenna elements with high isolation between each beam. This directionality and high isolation improves the SNR in MIMO channels while enhancing channel modes, thereby increasing the range and throughput of 802.11n WLAN devices. The MaxBeam 555 supports single band operation in the 4.9 to 5.9GHz band and is compatible with existing 802.11n systems in 2x3 and 3x3 configurations. The unique design of the MaxBeam 555 also allows for integration inside access points, routers and gateways, eliminating the need for external antennas.

### ANTENNA RADIATION PATTERNS



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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 and 802.11a
Frequency Band	4.9 to 5.9 GHz
Peak Gain	5.0 dBi @5.2GHz, 5.5 dBi @5.8GHz
Isolation	Higher than 15 dB in 5GHz band
VSWR	2:1 Max
Dimensions	69.5 x 69.5 x 10 (mm)
Weight	17 gm (0.6 oz)
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	Three 50 ohm, 1.13mm diameter, micro coax cables, U.FL compatible cable connector (optional) Cable mounted EMI ferrites (optional)

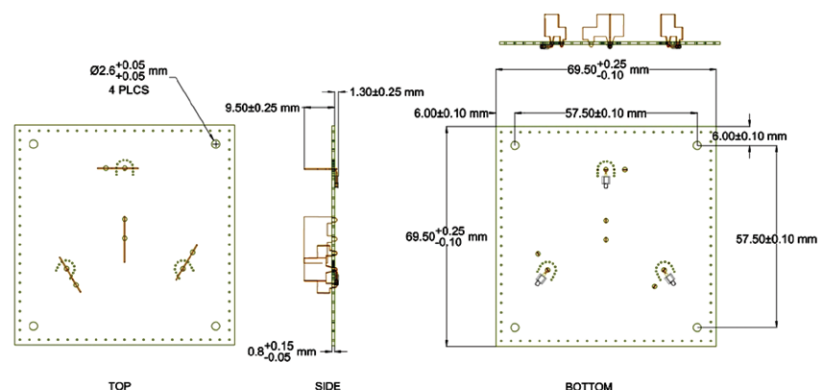
## FEATURES

- ▶ Single-band, antenna design for IEEE 802.11a and 802.11n
- ▶ Three independent and highly directional beams with excellent front-to-back ratio
- ▶ Independent, pre-tuned, subsystem, easily integrated into new products

## BENEFITS

- ▶ High isolation between all the beams
- ▶ Wide Bandwidth
- ▶ Low profile with high peak gain (Higher SNR)
- ▶ Low Cost and High performance

## MECHANICAL DIMENSIONS



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