



What is a 802.11N MIMO Antenna?

Multiple-Input Multiple-Output ([MIMO](#)) antennas have two or more antennas in a single physical package and are designed for use in IEEE 802.11N Wi-Fi networks. By utilizing multiple antennas, data throughput and range are increased compared to a single antenna using the same radio transmit power. Additionally MIMO antennas improve link reliability and experience less fading than a single antenna system. By transmitting multiple data streams at the same time, wireless capacity is increased. This is particularly helpful in extending the Wi-Fi range at campgrounds, RV Park, and Marinas.

2x2 and 3x3 MIMO technology uses Multipath (when wireless signals "bounce" off of objects and arrive at the receiver at different times) to improve wireless performance. MIMO technology takes a single data stream and breaks it down into several separate data streams and sends it out over different antennas. This provides redundancy. The receiving MIMO antenna will "look" at each stream being sent to determine the strongest one to choose.

Contact GNS Wireless for 2x2 and 3x3 802.11N MIMO Antennas in the 2.4GHz and 5GHz frequency.

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