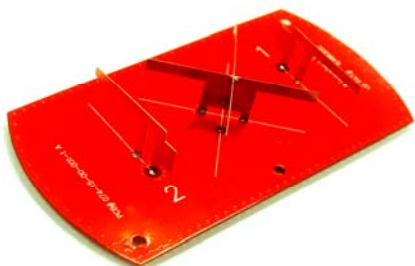


MaxBeam40N Smart Antenna

Smart Directional Antenna for 802.11b/g and 802.11n systems



The MaxBeam40N delivers improved performance for 802.11b/g and Draft-N MIMO systems while eliminating the need for external dipole antennas

The MaxBeam40N MIMO smart antenna utilizes patented beam forming technology to deliver greater signal strength and receive sensitivity than conventional dipole solutions. The MaxBeam40N antenna's unprecedented performance is derived by combining the benefits of two high gain directional antenna elements with high isolation between each element. This directionality and high isolation provides greater improves SNR while enhancing channel modes, thereby increasing the range and throughput of 802.11n devices. Its unique design also allows for integration inside routers, gateways and bridge devices, eliminating the need for external antennas. The MaxBeam40N operates in the 2.4GHz frequency and is compatible with existing 802.11 b/g and draft-N systems in a 2x2 configurations.

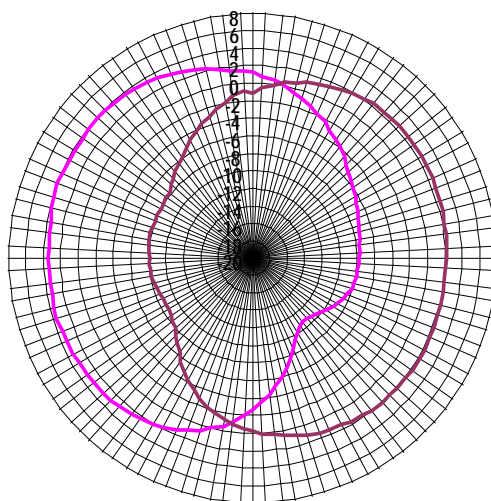
Features

-))) 2 Element/2 Cable Directional MIMO antenna provides peak gain of 4.0dBi
-))) Fully compatible with 802.11b/g and 802.11n systems
-))) Independent, pre-tuned, subsystem can be easily integrated into products

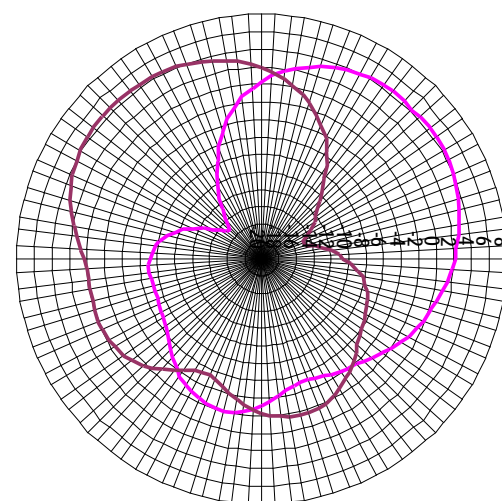
Benefits

-))) Eliminates external dipole antennas without sacrificing performance
-))) Provides superior horizontal and vertical coverage optimized for Indoor performance
-))) Provides extended range without increasing radiated power

Azimuth



Elevation



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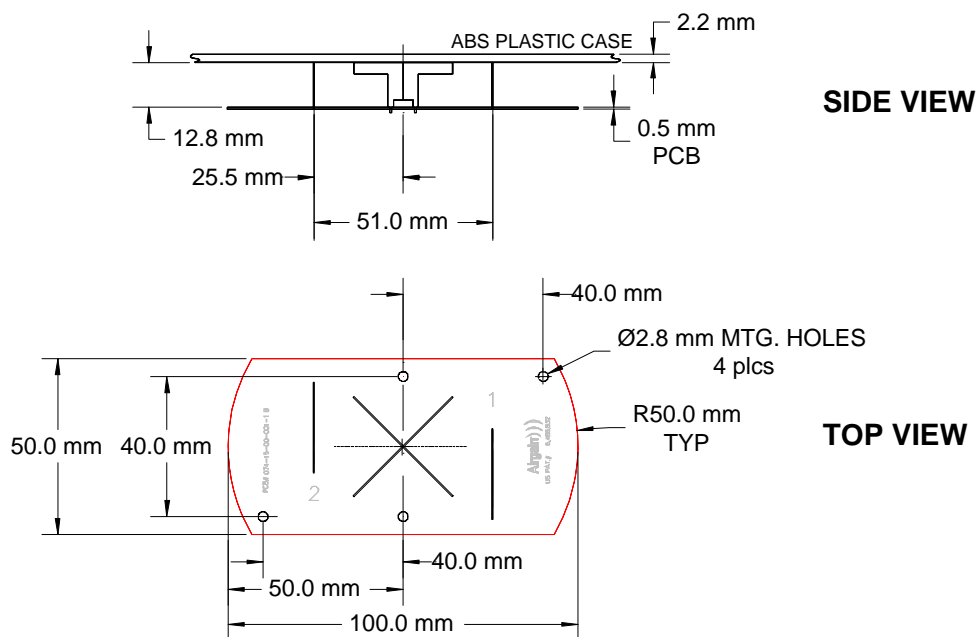
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Product Specifications

| | |
|----------------|--------------------------------------------------------------------------|
| Standard | IEEE 802.11b/g and 802.11n |
| Frequency Band | 2.4 to 2.49 GHz |
| Peak Gain | 4.0 dBi @2.44GHz (pre-cable loss) |
| VSWR | 2:1 Max |
| Polarization | Linear, vertical |
| Dimensions | 100L x 50W x 15H mm |
| Feed Impedance | 50 Ohms |
| Power Handling | 30 dBm |
| Interface | Two sets of soldering pads for 50 ohm, 1.13mm diameter, micro coax cable |
| 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 |

Mechanical Dimensions



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