



TURBOWAVE

TurboWave is an emerging technology leader delivering Customer Premise Equipment (CPE) for Broadband Wireless Access Systems in the ISM, WLL and MMDS frequency bands. TurboWave provides a reduction of build-out costs for Broadband Wireless Access Systems while accelerating the speed of deployment.

Simplify your Installation.

Reduce Your Cost.

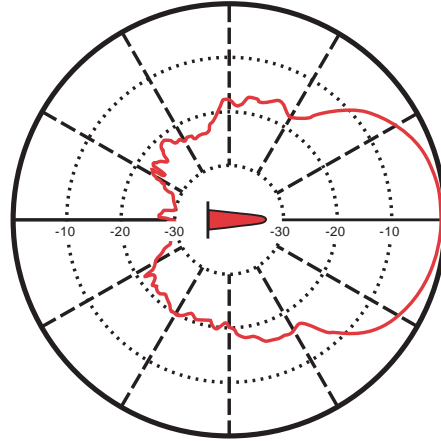
Accelerate Your Deployment.



Standard Helix Antenna(SLH10)

Description

The SLH10 Stub Loaded Helix is a compact helix antenna with performance characteristics similar to conventional helix but only about one-quarter the size. This significant size reduction is obtained through a unique patented antenna geometry that maximizes antenna performance and efficiency while minimizing size. The SLH10, like all of TurboWave's antennas, utilizes circular polarization to minimize the effects of multipath interference. It is housed in a rugged radome that protects the antenna from the weather as well as providing an aesthetically pleasing appearance. A variety of mounting options are available.



Radiation Pattern of SLH10 Stub Loaded Helix

Features & Benefits

- Light weight – slim profile
- Patented reduced size design
- Watertight Ultrasonic and O-ring sealed
- Circular polarization

Specifications

- | | |
|---------------------|---------------------|
| • Frequency | 2.3 - 2.6 GHz |
| • Typical Gain | 10 dBic |
| • Beamwidth – 3dB | 60° |
| • Polarization | Right-hand circular |
| • Nominal impedance | 50 Ohm |
| • VSWR | 1.3:1 |
| • RF power average | 10 W |
| • Length | 6.5" |
| • Connector | Reverse-thread TNC |

TurboWave smart antennas

outperform all previous field-deployed antennas in every category. Wireless network operators can establish a perfect link the moment the radios are activated and without the final alignment procedures normally required for yagi or other antenna systems.

In addition, you can cut your usual installation time by two-thirds. Link quality is superb and absolutely stable, even when moving the antenna several degrees from 'bore sight'. Interference from other existing antennas using the same frequency is also much lower than that experienced with other antennas.



SLH10

“The TurboWave antennas are performing exactly as they did the moment they were installed. Our proprietary link monitoring equipment records perfect performance 24 hrs a day since installation. This is without a doubt the easiest, most stable antenna system we have used. We have no hesitation recommending it to users of 2.4 GHz wireless data systems.”

*Peter Wood, President
Net-Conex.com B.C., Canada*

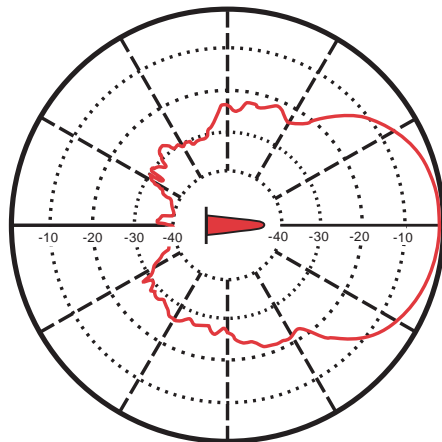
“TurboWave’s technology will cut our infrastructure build out costs in half. The signal penetrated four floors of concrete at a Hilton hotel which was twice as powerful as the next best antenna we tested.”

*Steve Berrey, V.P. Operations
Stayonline, Inc. Atlanta, GA*

Description

The SLH12 uses a cupped reflector to provide greater gain and a higher front-to-back ratio than the SLH10 for those installations where additional gain is needed or more directivity is required to reduce interference.

In high interference environment the SLH12 performs better than the competing traditional 13.5 dB yagi antennas. Improvement in link performance is virtually exponential rather than incremental. This, coupled with the ease of deployment, low wind/visibility profile and solid waveform performance makes the TurboWave SLH12 smart antenna the premier antenna available on the market today in the 2.3 to 2.6 GHz bands.



Radiation Pattern of SLH12 Stub Loaded Helix

Features & Benefits

- Light weight – slim profile
- Patented reduced size design
- Watertight Ultrasonic and O-ring sealed
- Circular polarization

Specifications

- | | |
|---------------------|---------------------|
| • Frequency | 2.3 - 2.6 GHz |
| • Typical Gain | 12 dBic |
| • Beamwidth – 3dB | 45° |
| • Polarization | Right-hand circular |
| • Nominal impedance | 50 Ohm |
| • VSWR | 1.3:1 |
| • RF power average | 10 W |
| • Length | 6.5" |
| • Connector | Reverse-thread TNC |

SLH12

