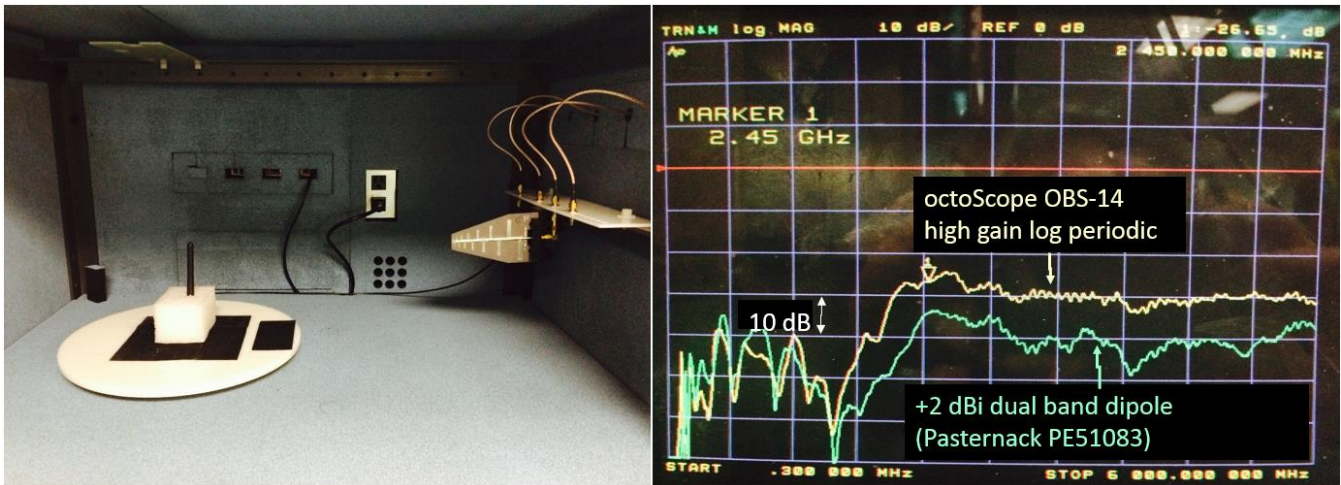




octoBox OBS-14 High Gain Antenna Array Datasheet

4-element MIMO antenna array optimized for operation between 2 and 6 GHz brings 10 dB of extra link budget vs. dipole in octoBox

The octoBox® OBS-14 high gain antenna option consists of 4 log-periodic high gain antenna elements that optimize the power of a 4x4 MIMO link in the octoBox testbed and increase the link budget by about 10 dB for each OTA (over-the-air) connection in the testbed; 20 dB when used in both octoBoxes.



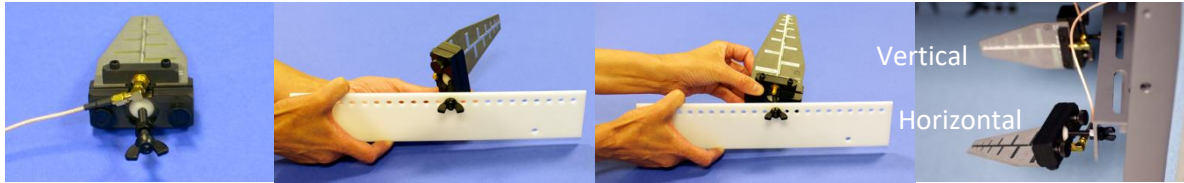
APPLICATIONS

- ✦ Wi-Fi (802.11a/b/g/p/n/ac), Bluetooth and cellular (GSM, UMTS, LTE, FDD, TD-LTE and LTE-Advanced) testing
- ✦ Throughput vs. range measurements
- ✦ Broadband log-periodic antenna elements, optimized for 2-6 GHz frequency band
- ✦ Plastic brackets and ball joint for minimizing unwanted reflections
- ✦ Precise control of polarization and pointing with the plastic ball joint at the base of each antenna element

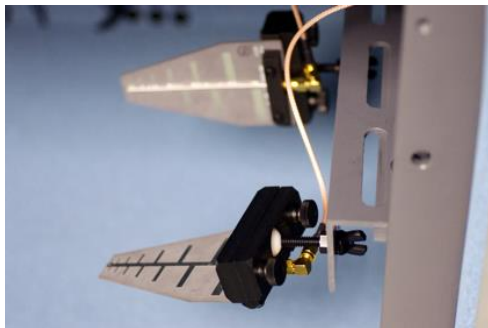


octoBox OBS-14 high gain antenna array option adds 10 dB of link budget vs. the antenna array based on the Pasternack PE51083 dipole antenna elements.

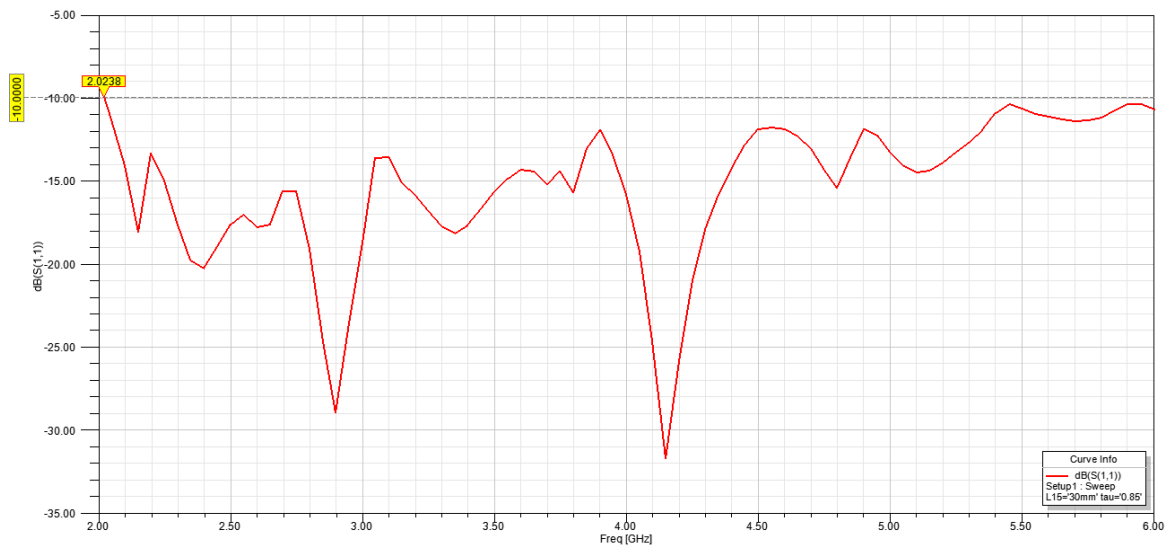
Ball joint on each antenna element allows precise pointing and polarization setting.



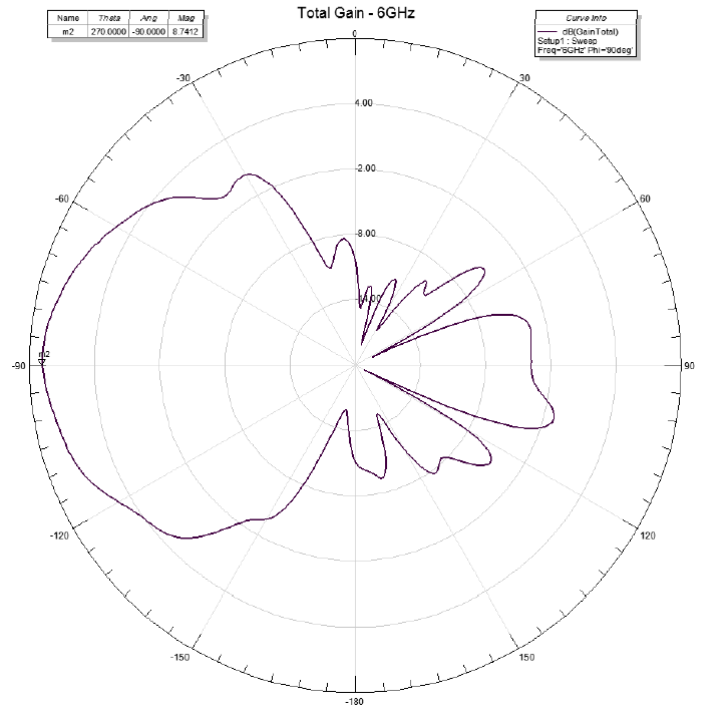
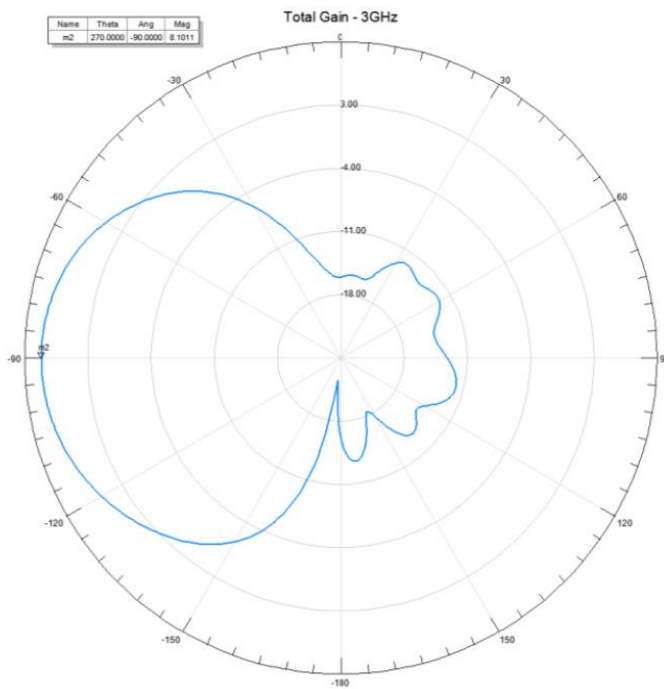
The antenna elements are mounted onto a plastic rail using plastic wing nuts and can be distributed around the walls and ceiling of the octoBox for optimum MIMO diversity or MU-MIMO operation.



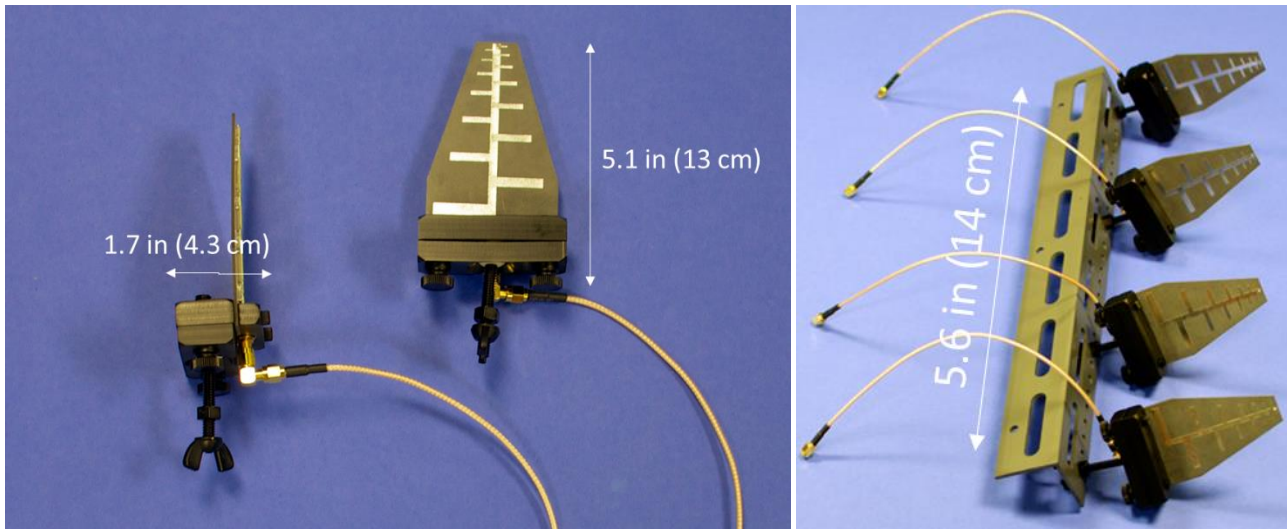
RETURN LOSS (S11)



RADIATION PATTERN



DIMENSIONS



Holes on the antenna rail (right) are spaced 0.625 inch (1.6 cm) to allow for flexible spacing of antenna elements. Outer holes are spaced 5.6 in (14 cm).

CONTACT

octoScope, Inc.
305 Foster Street
Littleton, MA 01460
Tel: +1.978.222.3114
sales@octoscope.com