

A new printed antenna model, the "cactus-antenna" is presented and discussed. The antenna consists of a printed monopole with one or two sleeves attached to each side. Switches are used to control the lengths of the monopole and the length of each sleeve to tune the first and the second resonant frequency of the antenna respectively. In the case of the double-sleeved antenna the switches are used to connect and disconnect a second sleeve to the monopole. Simulation data are compared against measurements to verify the performance of this antenna