Outdoor dual-band intelligent base station design

In this article, we provide an overview of IS-integrated BSs for wireless networks. Specifically, we present three different practical archi-tectures based on the integrated location of IS and compare ...

In this study, a 5G sub-6 GHz base station antenna array, is proposed and tested. The array offers dual-band, high gain, beam steering capability. It consists of four pairs of printed U-shaped dipoles ...

A novel dual-band antenna architecture tailored for full duplex systems is presented alongside the design of two shielding structures and their performance are evaluated in electromagnetic simulation ...

In this paper, a dual-band dual-polarized antenna with isolation enhancement is designed. The proposed antenna operates in the frequency range of 3.4-3.6 GHz and 4.8-5 GHz, where the ...

Therefore, this paper proposed a dual-band dual-polarized antenna for small base station applications that can cover the low band (3G/4G bands) and high band (5G NR band n78) at the ...

The mobile outdoor base station has emerged as a pivotal solution in the evolution of modern communication networks, addressing mobility and flexibility demands.

A novel dual-polarized base station antenna for 5G applications is proposed in this paper. The antenna consists of a parallel plate waveguide and a dipole antenna, which are fed by an ...

In this manuscript, a dual-band and dualpolarized coupled patch array antenna operating at 2.45 GHz and 5.8 GHz for outdoor Wi-Fi applications is proposed. Two sets of antenna arrays made of four ...