
Outdoor dual-band engineering base station

What is a dual-band dual-polarized antenna with isolation enhancement?

Privacy Policy 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 center frequency of the high band (HB) is 1.4 times that of the low band (LB).

What is a base station antenna?

A base station antenna is used for the transmission and reception of wireless signals to and from the mobile devices within their coverage area, also known as the sector 7. Base station antennas used for cellular communication systems, are of two basic types; omni-directional antennas and directional antennas.

Do base station antennas have to be multiband or wideband?

Therefore, the base station antennas have to be multiband or wideband so as to support multiple generations of cellular technology. In recent years, different multi-band and wideband antennas for base stations consisting of patch antennas, loop radiators and printed dipoles, have been used [18, 19].

What are the requirements for a base station antenna?

The requirements for a base station antenna include steerable antenna beam with high gain and directivity, which can be achieved by developing antenna arrays [26]. An antenna array is composed of multiple antenna elements and each element is connected to a phase shifter.

Abstract and Figures This paper proposes a new dual-polarized wideband base-station antenna. The designed antenna includes ...

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

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A high-isolation dual-band base station antenna array is proposed. At first, a 5-element high-band (HB) dipole antenna array with inter-element distance of $0.4 \lambda_0$ (the free ...

HWAP80 outdoor high-power base station AP can cover a wide area of 600 meters, can easily meet the wide coverage requirements ...

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 ...

HWAP80 outdoor high-power base station AP can cover a wide area of 600 meters, can easily meet the wide coverage requirements of outdoor WIFI projects, and ...

The proposed antenna array not only fulfills 5G base station requirements but is also simple and compact as it only requires eight ...

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