

A multifunctional antenna for terrestrial and satellite radio applications

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A multifunctional antenna is presented for the application in terrestrial radio services like GSM 900 MHz, DCS 1800 MHz as well as for satellite radio services like GPS 1575 MHz. At the terrestrial frequency bands GSM 900 MHz and DCS 1800 MHz the antenna exhibits omnidirectional radiation characteristics in horizontal plane for vertical polarized waves. At the frequency bands of the satellite radio services like GPS and Globalstar the antenna exhibits a radiation characteristic with a vertical main lobe and a circular polarized field.

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