

Title (en)

ANTENNA MODULE FOR A MOTOR VEHICLE

Title (de)

ANTENNENMODUL FÜR EIN KRAFTFAHRZEUG

Title (fr)

MODULE D'ANTENNE POUR VÉHICULE AUTOMOBILE

Publication

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Application

**EP 22709174 A 20220216**

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Abstract (en)

[origin: WO2022223078A1] The invention relates to an antenna module (10) for a motor vehicle (2), said antenna module (10) comprising at least one small electric AM-FM antenna (7) and a DAB antenna. According to the invention, the antenna module (10) has an antenna unit (5) which has a combination AM-FM antenna (7) and the DAB antenna (6), said antenna unit (5) having at least one first printed circuit board (24) with a first height in a first direction (z) and a first width in a second direction (x) perpendicular to the first direction (z), wherein helical antenna windings (7a, 6a) of the AM-FM antenna (7) and/or DAB antenna (6), which is at least partly designed as a planar helical antenna, are arranged on the at least one first printed circuit board (24), and the helical antenna windings (7a, 6a) at least largely run in the second direction (x). The at least one first telephone LTE 5G antenna (8) is arranged on a second printed circuit board (33) with a second height in the first direction (z) and a second width in a third direction (y) which differs from the first and second direction (x). Furthermore, tuners, transceivers, receivers, and bus systems as well as adjustment networks and amplifiers for the antennas can be integrated.

IPC 8 full level

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