

Title (en)
DIRECTIONAL BROADBAND ANTENNA WITH LONGITUDINAL TRANSMISSION

Title (de)
BREITBAND-RICHTANTENNE MIT LONGITUDINALWELLEN-ÜBERTRAGUNG

Title (fr)
ANTENNE DIRECTIVE LARGE BANDE À ÉMISSION LONGITUDINALE

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Application
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Abstract (en)
[origin: CN113451748A] The invention relates to a Yagi-Uda monopole antenna (300) and an aircraft comprising the Yagi-Uda monopole antenna. The Yagi-Uda monopole antenna is intended to be mounted on an electrically conductive surface of a vehicle, in particular the aircraft. The antenna comprises a radiating element in the form of an electrically conductive plate (320), such as an electrically conductive plate having the shape of a disc (321), the plate being equipped with a loop conductor (325); a reflective element (310); and at least one director element (330) in the form of a monopole folded on itself. The elements are mounted on a substantially flat surface, for example, on a fuselage skin of the aircraft. The antenna has a wide working frequency band, good compactness and good directivity at the same time. The antenna can be used in particular as a joint antenna for multiple air-to-ground communication systems of the aircraft.

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