



MULTIBAND ANTENNA WITH INCLINED RADIATING ARRAY

Innovative, pyramid-shaped multiband antenna to generate linear or circular polarisation

Technological advantages

Innovative technology

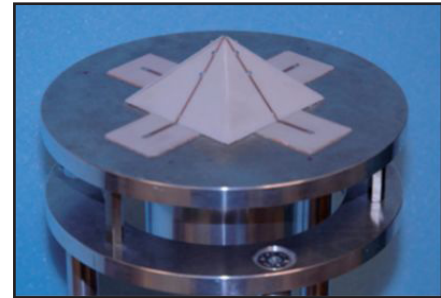
Simple and flexible design for:

- frequency band
- polarisation
- opening of main beam

Low cross-polarisation levels due to unique geometry of 4 radiating elements

High performance levels, easily adaptable

Different declinations possible for ground plane depending on required performances, enabling a compromise between RF performances and overall dimensions based on the target applications



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Pyramid-shaped multiband antenna



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Filters to ensure multiband operations

Overview of invention

Antenna comprised of 4 inclined radiating elements positioned on a ground plane with one or more openings to improve the antenna's adaptability.

The power supply mode for the radiating elements sets the polarisation (linear or circular).

Commercial benefits

Simple, reliable design

Improved link budget

Simple construction, through use of printed circuits for radiating elements

Potential applications

- Navigation combining GPS and Galileo frequency bands

- Data transmission

TRL : 3 (2010)

*Patented invention, available under license
Pre-industrialisation in progress*