



SPACE
FOR BUSINESS
BUSINESS
FOR SPACE

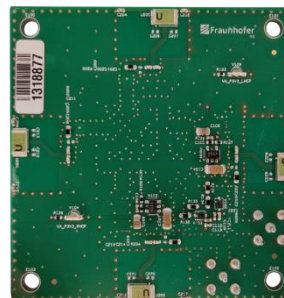


TECHNOLOGY DESCRIPTION

The new improved AMELIE UAV/AV DCP (Dual Circularly Polarized) antenna supports all GNSS L-Band signals relevant for robust and resilient positioning.

The development focused on UAVs, as they have the most challenging requirements in this class of applications.

Because of space and cost constraints, the smart antenna version has a small but powerful Septentrio receiver module mosaic-H soldered directly on the antenna PCB, eliminating the need for cabling and connectors.



INNOVATIVE ASPECTS

The AMELIE UAV/AV antenna / system offers:

- Increased performance compared to typical GNSS antennas
- Supports interference detection and mitigation
- Enhanced isolation between the RHCP and LHCP channels
- Attractive price structure
- Available as stand-alone or smart GNSS All-L-Band antenna
- Optional customization to fit desired need or intended product
- Embedded antenna ready for integration into target system
- Further integration (e.g., smart antenna fully integrated in the UAV flight management system)
- AMELIE UAV/AV is the first high performance, light weight, cost effective DCP GNSS All-L-Band antenna in this market.



TECHNOLOGY READINESS (in space application)

TRL 7 (2024)

COUNTRY OF ORIGIN

Germany

LATEST UPDATE

06/2024

TAGS

#communication

#GNSS

#antenna

#lightweight

#cost effective

#UAV

APPLICATION AREAS

Aviation

Consumer Products

Data Processing, Software & AI

Maritime & Aquatic

Safety & Security

Tourism

Transport & Logistics



TECH CARD