

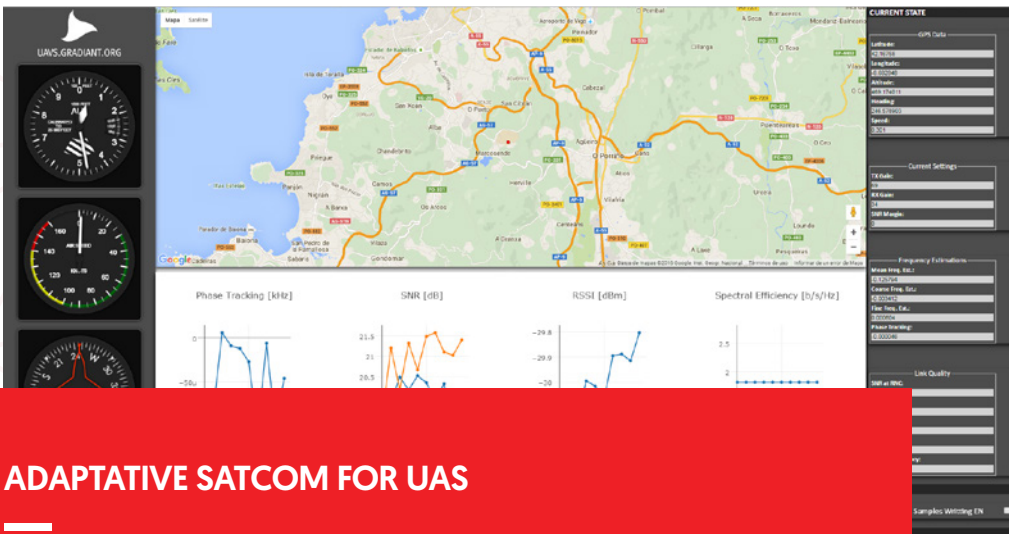
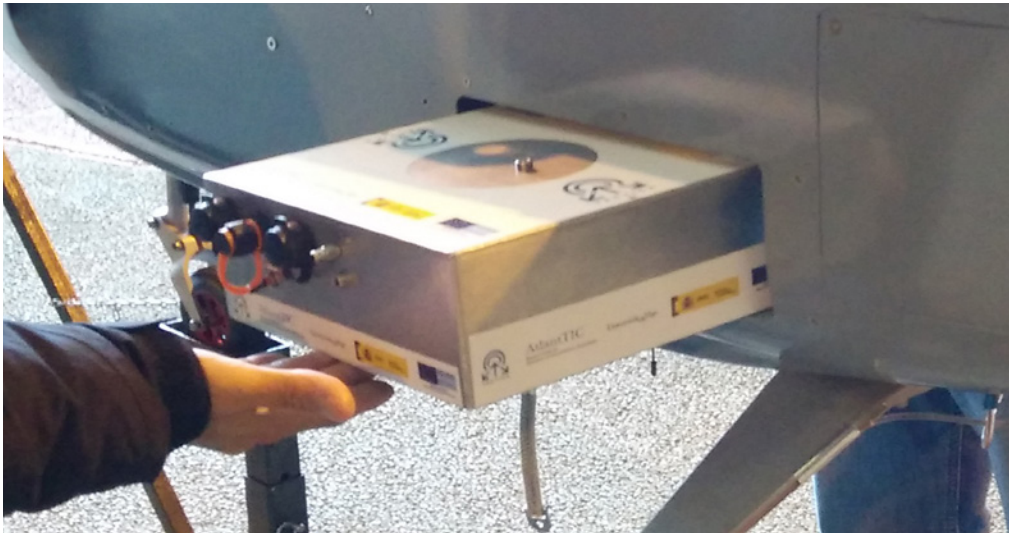


Advanced Technologies for UAS



ADAPTATIVE SATCOM FOR UAS





ADAPTATIVE SATCOM FOR UAS

Command & Control and Payload communications for Unmanned Aerial Vehicles (UAVs) in beyond line of sight (BLOS) missions.

Efficient use of the spectrum: The bitrate is automatically adapted depending on the channel quality.

The system is composed by two parts: an **Onboard Mobile platform** and a **ground station**.

HIGHLIGHTS

- > Bitrate is automatically adapted depending on the channel quality.
- > Adaptive in real time to varying link conditions.
- > Avoid Pointing using non-directional antennas.
- > Low SWaP (Size, Weight and Power).



SPECS

- > Bandwidth: 84KHz
- > Effective Bit Rate: from 41,2 Kbps to 211,2 Kbps
- > Frequency band. Receive 2175 MHz, Transmit: 1990 MHz
- > Max. Power: 10 W
- > Delay: 300 ms
- > Coding scheme: turbocodes
- > Software based PHY Layer
- > Full Duplex Communication
- > Efficient IP Connectivity
- > Lightweight
- > Integrated GPS
- > Tested over a MEO SAT



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