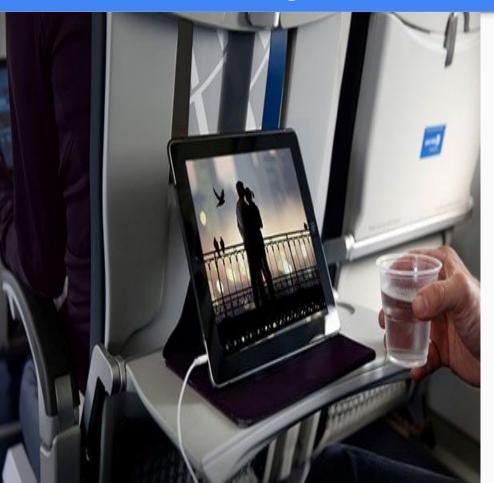
GNS Electronics

ADS-B Receiver Use Cases

Portable In Flight Entertainment (IFE)



01

Bring your own device (BYOD) is a huge avionic trend

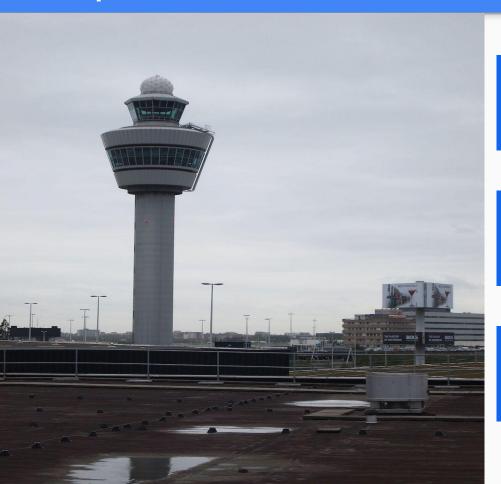
02

Portable BYOD IFE saves space, weight and cost

03

ADS-B receiver is used for aircraft status detection (ground, airborne etc.) and moving map feature

Airspace Surveillance Infrastructure

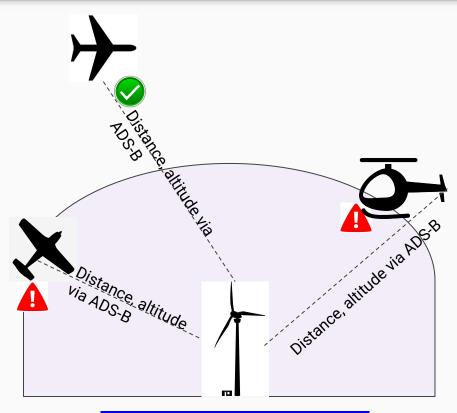


The airspace is getting more and more crowded by new entries (e.g. unmanned drone fleets)

Safe operation requires a comprehensive awareness of all traffic in the airspace

ADS-B receivers are used for collecting data of ADS-B Out enabled airspace vehicles

Demand based Night Navigation Light System



DNNL activation as soon as an aircraft is identified closer than 6 kilometers and below 600 meters Light pollution legislation is major topic (e.g. Wind power stations in Germany)

ADS-B receiver used for detection of aircrafts in proximity to switch on / off navigation lights

Huge cost savings compared to active and passive radar alternative solutions

Portable Proximity Airspace Tracker



Hobby pilots of all kind are in danger of interfering or colliding with low flying larger aircrafts

Awareness of all traffic in the lower airspace is increasingly important

ADS-B receivers are used for collecting data of ADS-B Out enabled airspace vehicles

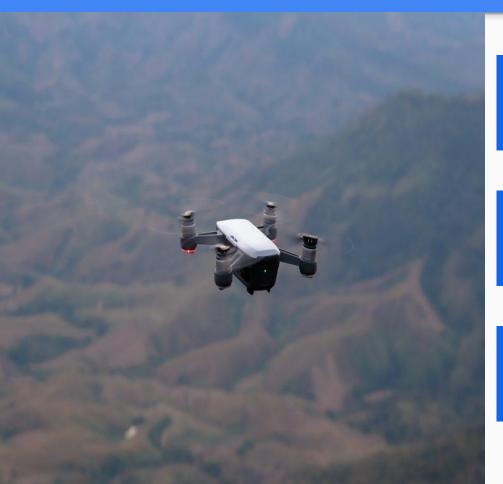
Cabin Big Data



Aircraft sensor big data is already in place - next is cabin big data

ADS-B receiver collects data of own and surrounding aircrafts

Unmanned Aerial Vehicles (UAV)



The commercial drone market is projected to grow exponentially

Collision avoidance between drones and other aircraft is a crucial element (e.g. DJI AirSense)

ADS-B receivers are used to collect data about aircraft in proximity for collision avoidance

Smart Unit Load Devices (ULDs)



Non traceable container damages and maloperation cause huge loss for ULD operators

Smart ULDs detect maloperation via numerous sensors (accelerometer, temperature etc.)

ULD location (inside / outside aircraft) detection with ADS-B receiver for power / RF management

Solution

State of the art GNS ADS-B receiver modules





Cost efficient

Unique cost efficient FPGA-less implementation



Low power

Ideally suited for battery powered use cases with small form factor and long run time



Avionic proven

Numerous design wins for various avionic use cases

Selected Customers & Partners

































Get in touch!

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