



TID-Aero

(Basic Information)

Traffic Information Device **Aero** is a low-cost ADS-B receiver dedicated especially for drones (DAA Detect and Avoid technology). It offers two interfaces (UART/USB) and two protocols (AERO™/MAVLink) for simple plug&play integration. **Aero** based on the proven FPGA-In-The-Loop™ technology with many unique features.

Features

- **ADS-B and Mode-A/C/S** with the ability to track up to 100 aircraft
- **RF power measurement** for each frame (useful for distance estimation in case of Mode-A/C/S)
- High sensitive front-end (jamming and ESD protection) with **ranges over 200 km** (1dBi antenna)
- Simple module integration – **plug&play**
- Two interfaces available: UART and USB
- Power supply 5.0 V, current consumption 70mA
- Designed to meet the requirements of TSO-C199
- Small outline (a): 25.0 x 17.5 x 10.0 (11g weight with antenna)

Applications

- **SAA/DAA** (Sense and Avoid / Detect and Avoid)
- Mobile and stationary **traffic surveillance**
- **Anti-collision** warning devices
- For **UTM / U-Space** construction
- For systems that meet the **NextGen / SESAR** philosophy

Basic Electrical Specification

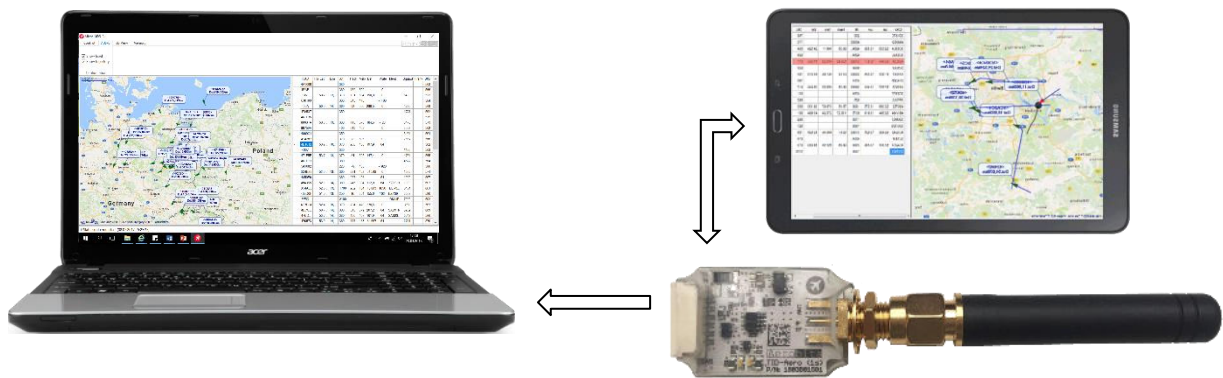
Parameter	Description	Min.	Typ.	Max.	Unit
Carrier frequency		-	1090	-	MHz
RX sensitivity	SMA connector	-	-85	-	dBm
Power supply		4.5	5.0	5.5	DCV
Current consumption		-	70	-	mA

Configuration examples:

1. UART + MAVLink – plug your Aero directly to telemetry port of Pixhawk via JST connector.



2. USB + AERO™ – plug your Aero directly to PC or mobile device.



Connector type: JST SM06B-GHS-TBLFSN

Connector			
Pin	Type	Description	
1	POWER	-	
2	CAN_L	Not used at the moment	
3	CAN_H	Not used at the moment	
4	RX	UART	
5	TX	UART	
6	GND	-	

For technical questions please contact: support@aerobits.pl

For ordering: sales@aerobits.pl

Aerobits reserves the right to alter product, services offerings, specifications, and pricing at any time without notice
 © Copyright 2018 Aerobits, All rights reserved.