

Libre Space
Foundation







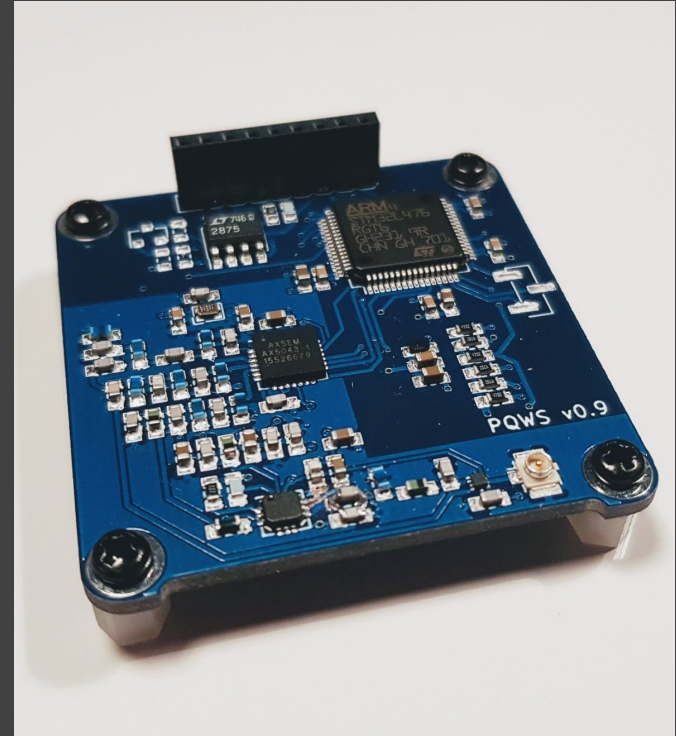
sdrmaker.space

- ESA ARTES activity
- Software Defined Radio R&D and exploration for SatComs
- 12 themes
- 16+ sub-activities planned
- Fast iteration - Synergies explored
- Activities on all TRL
- Implementers wanted!
- Open source software and hardware



PQ9ISH COMMS

- Pocketcube format (50x50mm)
- Combined OBC and COMMS
- UHF uplink and downlink
- 2W transmitter
- CAN bus interface
- Cubesat PC104 adapter available
- Released as open hardware with open source software
- TRL 6



The OpenAstrodynamics Initiative

OpenAstrodynamics is a collaboration between open source astrodynamics and space engineering projects to share resources, ideas, and to improve code.

Core Principles


We believe in...

- Interoperability through open standards and protocols
- Sharing validated algorithms
- Contributing test cases and reference scenarios
- Diversity in implementations and technologies

Members

- **Astrodynamics.jl** is an MPLv2-licensed framework for building astrodynamics applications in Julia.
- **openastro** is a collection of C++ libraries for astrodynamics and space engineering.
- **poliastro** is a python package for Astrodynamics and Orbital Mechanics problems, such as orbital elements conversion, orbital propagation, plotting, planetary ephemerides computation, and more.

Imp... my UK Rocket Altitude record!



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UNITED KINGDOM ROCKETRY
ASSOCIATION (UKRA)

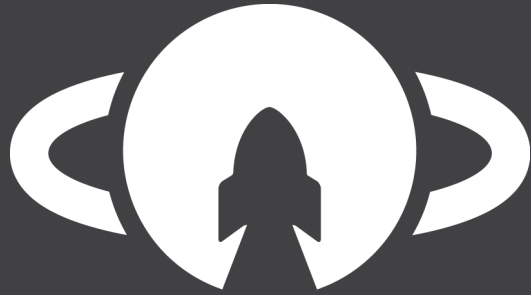
[Home](#) > [UKRA Info](#) > [UKRA Records](#) > [UK Rocketry Altitude Records](#)

UK Rocketry Altitude Records

Class	Altitude	Rocket Name	Name or Team	Motor Total Impulse	Airframe diameter	Rocket mass	Date	Location	Altitude verification method
A-class	703 ft (214.27m)	Imp (Scratchbuilt)	Jo Hincliffe	A3-4T Eides	10mm to 13mm 0.71" to 0.91"	12.99g GLOW	6th May 2018	BigEARS, Elsworth	PerfectFlite Firefly Altimeter

So.. Had a fab weekend. I travelled down to the mighty [BigEARS rocketry event](#) (another post on that later) and whilst I was there I finally got to launch my imp scratch built rocket and set a [new UK rocketry altitude record](#) in the A impulse class! The previous record was from 2013 and set at 143 metres and I am very happy to report and show that imp achieved 214 metres!





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