



Onboard avionics for space aplication

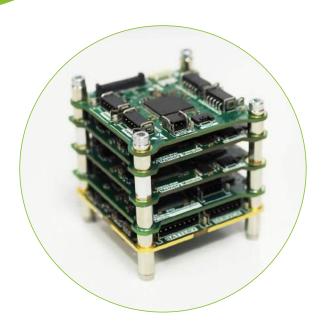
OBC-K1 ON-BOARD COMPUTER

## **CHARACTERISTICS**

The OBC-K1 is a modular on-board computer developed for the ILR-33 AMBER 2K suborbital rocket. It has been designed to perform in-flight data acquisition, guidance, navigation and control. Thanks to its use of standardized modules, the device can be easily tailored to a specific mission. Small module form factor allows for use in space-restricted applications.



The OBC-K1 is a flight-proven, reliable solution for suborbital rockets. With a dedicated enclosure, it is capable of withstanding even the harshest environmental conditions. 7 different modules have been developed so far. Custom module design possible.



## **TECHNICAL DATA**

Parameter	Value
Dimensions	110 x 120 x 160 mm enclosure
	/ 55 x 55 mm single module
Digital interfaces	CAN, RS-232, RS-422, RS-485
Analog interfaces	0-5V/16 bit/10 kHz,
	0-12V/16 bit/1 kHz
Active operating time	120 min
Standby operating time	30 days
Mass	1.2 kg enclosure
	/ 1.7 kg estimated total

Parameters given for a baseline configuration.





The Łukasiewicz Research Network - Institute of Aviation offers a wide range of specialized research, engineering services and products. We provide comprehensive solutions, ranging from dedicated analyzes, simulations, engineering design, through the selection, testing and certification of materials and structures, to rapid prototyping and additive manufacturing.