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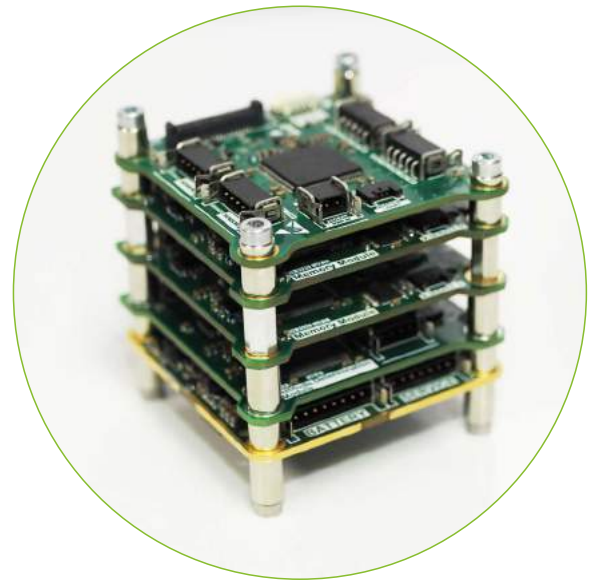
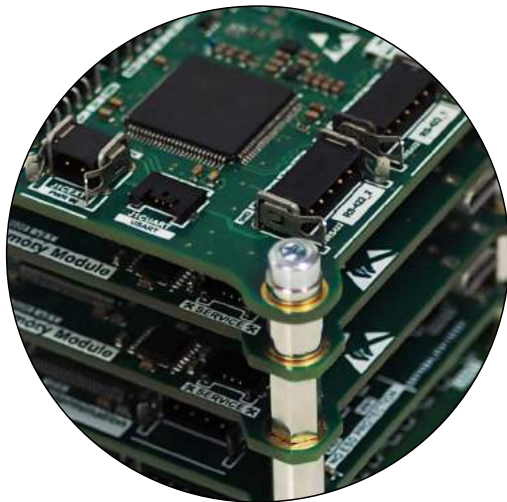


Onboard avionics
for space application

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.



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 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.



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