



GERMAN
ORBITAL
SYSTEMS

Functional Characteristics

Processing Unit	MCU ARM STM32F427
Clock Speed	Up to 180 MHz
SRAM	256kB internal, 1 MB external
Flash Memory	2MB and 2GB shielded external
System bus	I2C or CAN

Physical Characteristics

Mass	64g
Outline Dimension including connector pins	90x96x24(LxWxH in mm)

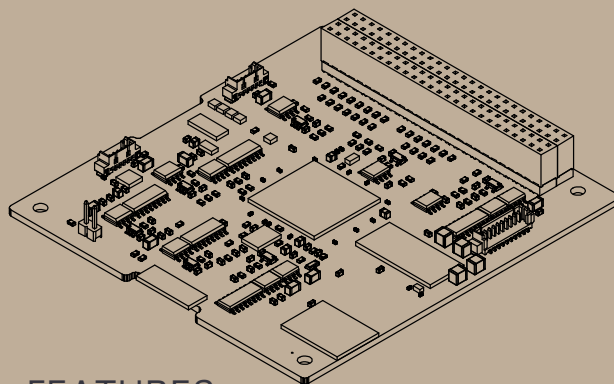
Qualification Data

Operating Temp.	-40°C to 80°C
Design Life Time	2yr LEO
Random Vibration	8g(6.7g Acceptance), 1000g Shock

Interfaces

Power	3.3V
Payload Data Ports	I2C, SPI, CAN, USART, Ethernet, USB
Mechanical	4x3.2mm through holes

CUBESAT ON BOARD COMPUTER



FEATURES

- PC-104 Standard
- Communication module interface
 - 2 x UHF com. Interface
 - Support of IQ Wireless HISPICO
- MEMS 3D Gyro for attitude determination
- External Watchdog
- Real Time Clock
- PC-104 System Bus Connectors
- Designed for CubeSat Kit
- ADC channels for external use

HERITAGE

Our company is a spin-off from the TU Berlin. Being one of the most renowned addresses in Europe when it comes to satellite technology, the TU Berlin has successfully launched 10 satellites. Following the design philosophy and using the component base from these projects allows us to provide reliable and robust solutions for small satellites at a market transforming price.

Our OBC is a lightweight and cost-saving solution for small satellites. It is fully compatible with all other GOS products. But due to its wide range of potential payloads and PC-104 standard, it can reliably be used in any other small Satellite.

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