



## DESCRIPTION

The nasir on-board computer is a high performance processing unit based around an ARM®32-bit Cortex®-M4 processor with a clock speed of 168 MHz and offers a multitude of standardized interfaces. The Cortex-M4 core features a Floating point unit (FPU) single precision which supports all ARM single-precision data-processing instructions and data types. It also implements a full set of DSP instructions and a memory protection unit (MPU) which enhances application security, this makes the OBC the ideal candidate for your main mission computer or payload processing unit.

## FEATURES

- ARM Cortex M4 processor
- Frequency rate: up to 168 MHz
- 1MB Program Memory Size
- 192kB RAM
- 32Mbit External flash memory
- MicroSD card slot

### Interfaces

- 2x I2C bus
- 2x SPI interface
- 2x UART interfaces

- 19x GPIO
- SWD Debug interface

### Connectors

- 104-pin CubeSatKit standard bus connector

## PRODUCT PROPERTIES

- Dimensions: 96 x 90 x 16.84mm
- Power Supply: 3.3V
- Operating Temperature: -25 °C to +65 °C
- Mass: 56g
- Power: 610 mW (typ), 1 W max