

MicroMod Alorium Sno M2 Processor

Product Overview

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For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun MicroMod Alorium Sno M2 Processor features the Snō System on Module (SoM) adapted to the MicroMod M.2 processor form factor. The FPGA of the Sno M2 processor provides a reconfigurable hardware platform that hosts an 8-bit AVR instruction set that is compatible with the ATmega328. This makes the processor fully compatible with the Arduino IDE. Alorium Technology provides a library of custom logic called Xcelerator Blocks (XBs) through the Arduino IDE that accelerates specific functionalities that are slow, problematic, or even impossible for an 8-bit microcontroller. The MicroMod Alorium Sno M2 processor USB serial programming interface, 3.3V operating voltage, and 16MHz/32MHz clock speed.



Features

- Alorium Sno processor:
 - Intel® MAX® 10 FPGA (16K LEs):
 - 10M16SAU169C8G
 - Programmable with Arduino IDE
 - Embedded 8-bit AVR instruction set compatible microcontroller (ATmega328 compatible)
 - Configurable with custom Xcelerator Blocks (XBs) on the FPGA
 - Programming interface: USB Serial
 - 3.3V operating voltage
 - 16MHz/32MHz clock speed
- Digital I/O:
 - 32x Dedicated digital pins
 - 6x Shared digital with analog pins
 - 3.3V inputs
 - 3.3V outputs
- Analog inputs:
 - 6 Analog pins
 - 3.3V Analog reference
 - ADC Performance: 1MHz
 - Resolution: 12-bit sustained
 - Sample Rate: 254k samples/second

Features

- Memory:
 - Program FLASH 32KB
 - Data memory SRAM 2KB
- Specific Peripherals available on MicroMod Alorium Sno M2 Processor:
 - JTAG footprint for direct FPGA programming
 - M.2 keyed interface for integration with SparkFun MicroMod carrier boards

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-micromod-alorium-sno-processor/>