

WRL-16984

MicroMod nRF52840 Processor Board

Product Overview

11-29-2021

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

Description

SparkFun MicroMod nRF52840 Processor Board (WRL-16984) features the Nordic Semiconductor nRF52840 System-on-Chip (SoC). It's a combination of Arm® Cortex®-M4 CPU and 2.4GHz BLUETOOTH transceiver in the MicroMod form-factor. The M.2 MicroMod connector allows for plugging into a compatible MicroMod carrier board with any number of peripherals.



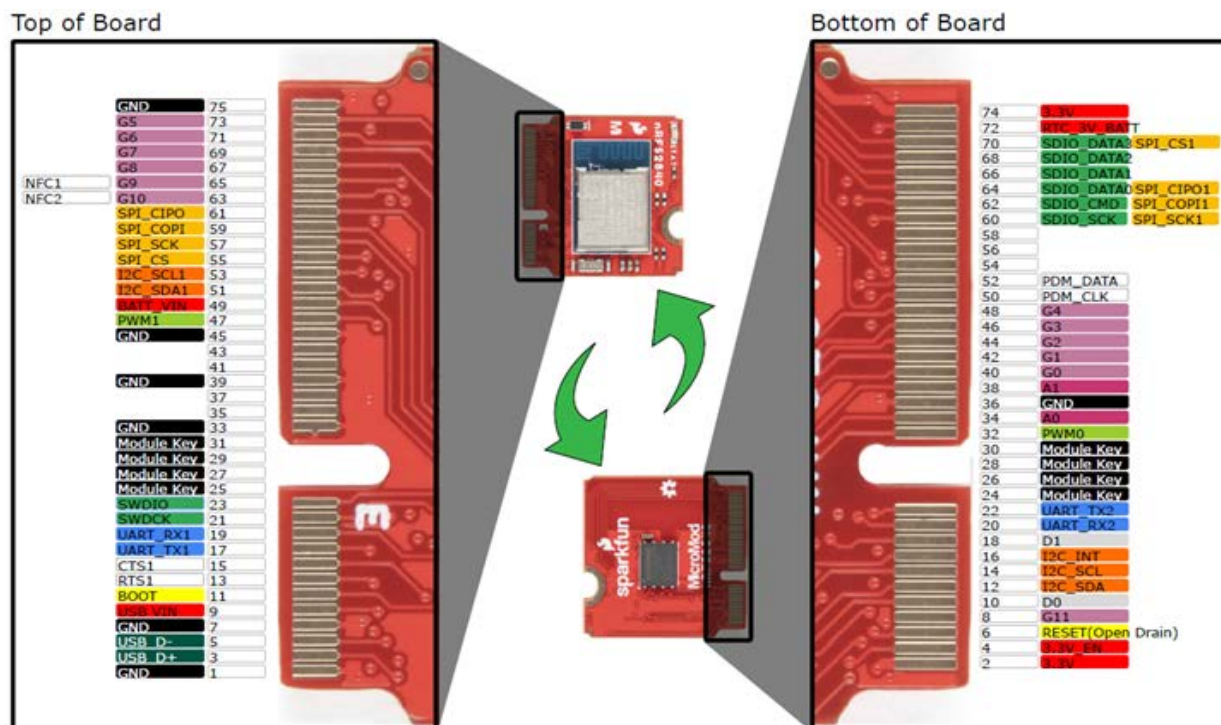
The MicroMod nRF52840 processor board features the same Raytac MDBT50Q-P1M found on the Pro nRF52840 Mini. This module includes an integrated trace antenna, fits the IC to an FCC-approved footprint. It also includes decoupling and timing mechanisms that would need to be designed into a circuit using the bare nRF52840 IC.

Features

- Arm Cortex-M4 CPU with floating-point unit (FPU):
 - 1MB internal Flash
 - 256kB internal RAM
- Integrated 2.4GHz radio with support
 - Bluetooth Low Energy (BLE) with peripheral and/or central BLE device support
 - Bluetooth 5
 - ANT
 - Nordic's proprietary RF protocol
- Every I/O peripheral needed
 - USB
 - UART
 - I²C
 - SPI
 - Analog-to-digital converters (ADC)
 - PWM
 - Real-time clock (RTC)

- Specific Peripherals available on MicroMod nRF52840
 - 3 UARTs
 - Primary tied to USB interface
 - 2 hardware UARTs
 - 2 I2C buses
 - 2 SPI buses
 - Secondary SPI Bus primarily used for Flash IC
 - PDM audio processing
 - 2 analog inputs
 - 2 dedicated digital I/O pins
 - 2 dedicated PWM pins
 - 11 general purpose I/O pins

Pin Description



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-micromod-nrf52840-processor/>