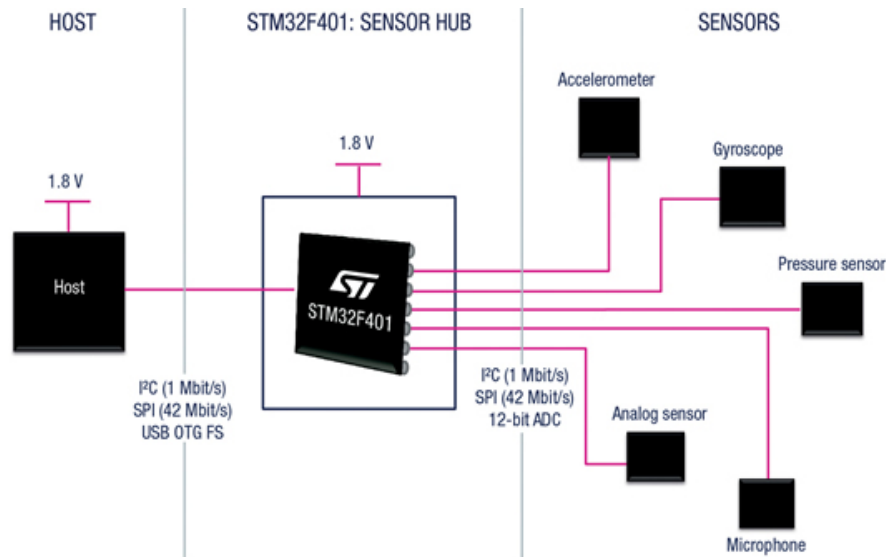


Class-Leading Microcontroller Series

MDT Staff



The STM32F401 is the entry-level microcontroller in STMicroelectronics' high-performance STM32F4 series featuring the ARM Cortex-M4 32-bit/DSP core. While running at lower frequency than other STM32F4 devices, it balances performance, power consumption and integration and claims the lead in its class by offering 105DMIPS at 84MHz, 187 μ A/MHz active current, 11 μ A typical STOP current, and a rich set of integrated features.

Lower power consumption, tiny 3x3mm dimensions and 105 $^{\circ}$ C ambient-temperature capability make the STM32F401 ideal for managing sensors for medical and mobile applications or for fieldbus-powered industrial sensor modules. The STM32F401 allows zero wait-state operation from its 256 Kbyte on-chip Flash, using ST's unique Adaptive Real-Time (ART) accelerator. The device integrates a 12-bit 16-channel 2.4Msample/s ADC, 12 communication ports including USB OTG, I2S, I2C and SPI, a motor-control timer, and multiple general-purpose timers.

For more information, visit: www.st.com [1].

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[1] <http://www.st.com>