

STM32L Ultra-low-power 32-Bit MCU Seminars



STMicroelectronics

STM32L EnergyLite™ ultra-low-power MCUs

The STM32L MCU family, based on the Cortex™-M3 core, extends the ultra-low-power portfolio in performance, features, memory size and package pin count. The STM32L family combines very high performance and ultra-low power consumption, using optimized architecture and our proprietary ultra-low leakage process, shared with the STM8L family. The STM32L family extends the highly successful STM32 portfolio providing a platform of compatible devices able to support a broad range of applications.

Energy savings by combining high performance and energy efficiency:

- Cortex™-M3 32 MHz CPU
- Pin-to-pin compatibility with STM32F series
- Ultra-low energy consumption: down to 185 μ A/DMIPS
- Supply voltage: 1.65 to 3.6 V
- Six ultra-low-power modes: down to 270 nA
- Ultra-low-power dynamic modes: low-power run down to 10.4 μ A; low-power sleep down to 6.1 μ A with one timer

Attend this FREE STMicroelectronics seminar and walk away with in-depth technical knowledge of the STM32L family and be eligible to win an iPod Nano and an STM32L Evaluation Board!



Boston - Dec 7
Vancouver - Dec 7
Orlando - Dec 8
Seattle - Dec 8
Minnesota - Dec 9
Chicago - Dec 14
San Jose - Dec 14
Toronto - Dec 15
Los Angeles - Dec 16
Rochester - Dec 16

Register online at www.st.com/naseminars

FREE STM32L Ultra-low-power MCU Seminars



Seminar Agenda:

- 9:00 - 12:00 Introduction to the STM32L Family
Cortex™-M3 Core
STM32L Low Power Modes
STM32L System Architecture
STM32L Advanced Digital Peripherals
STM32L Advanced Analog Peripherals
- 12:00 - 1:00 Lunch Served
- 1:00 - 2:30 Demonstration of:
STM32L Development and Programming Tools
STM32L Evaluation and Development Kits
STM32L Firmware Libraries

Attendees will be introduced to the complete set of STM32L firmware libraries, development tools, programming tools, evaluation and starter kits.

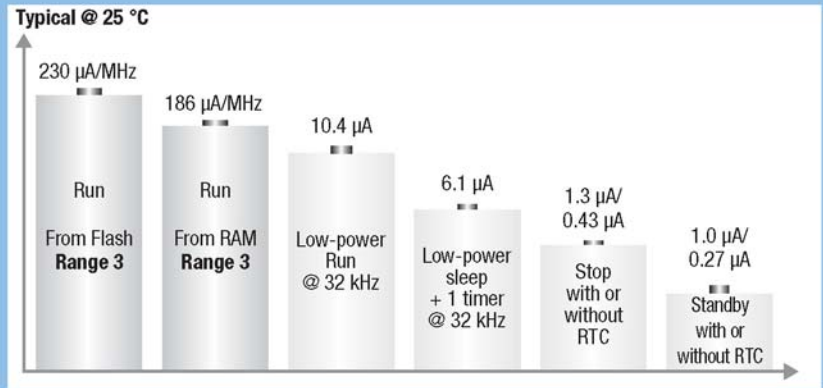
Each participant will receive a 50% discount coupon towards the purchase of an STM32L152-EVAL Evaluation board.

Attendees will have the chance to Win a new 6th Generation iPod Nano



System Power supply Internal regulator POR/PDR/PVD/BOR Xtal oscillator 32 kHz + 1 - 24 MHz Internal RC oscillators 37 kHz + 16 MHz Internal ULP multispeed RC oscillator 64 kHz to 4 MHz PLL Clock control RTC/AWU 2x watchdogs (independent and window) 37/51/80 I/Os Cyclic redundancy check (CRC) Voltage scaling 3 modes	ARM Cortex-M3 CPU 32 MHz Nested vector interrupt controller (NVIC) JTAG/SW debug Embedded Trace Macrocell (ETM) Memory protection unit (MPU) AHB bus matrix 7-channel DMA	64- to 128-Kbyte Flash memory 10- to 16-Kbyte SRAM 84-byte backup data 4-Kbyte EEPROM Boot ROM Connectivity USB 2.0 FS 3x USART 2x SPI 2x PC Touch sensing Charge-transfer driver up to 18 channels Analog 2-channel 12-bit DAC 12-bit ADC 24 channels 2x comparators Temperature sensor
Control 8x 16-bit timer	Display LCD driver 8x40	

Abbreviations:
 AWU: Auto wake up from halt
 BOR: Brown-out reset
 FC: Inter integrated circuit
 PDR: Power-down reset
 POR: Power-on reset
 PVD: Programmable voltage detector
 RTC: Real-time clock
 SPI: Serial peripheral interface
 USART: Universal sync/async receiver transmitter



This seminar will include technical detail on the high performance STM32L Cortex™-M3 core, ultra-low-power modes, system architecture, and advanced digital and analog peripherals featured in the STM32L family. Demonstrations will include how to start, develop and debug a project using the simple to use firmware libraries and low cost development tools and kits.

EnergyLite

FREE! Don't miss out.
Register today on-line at
www.st.com/naseminars

