

# STM32 32-bit MCU family

## The fastest growing ARM<sup>®</sup> Cortex<sup>™</sup>-M based platform



### Addressing the three dimensions of microcontroller effectiveness (performance, efficiency, price)



#### HIGHEST PERFORMANCE BASED ON CORTEX-M4: STM32 F4 SERIES WITH DSP AND FPU

- 608 CoreMark at 180 MHz from Flash
- Up to 2-Mbyte dual-bank Flash, 256-Kbyte SRAM
- SDRAM, TFT LCD controller with graphics acceleration and serial audio interface



#### MIXED-SIGNAL BASED ON CORTEX-M4: STM32 F3 SERIES WITH DSP AND FPU

- Fast 12-bit ADC, 5 MSPS and precise 16-bit sigma-delta ADCs
- Fast comparators (50 ns), programmable gain amplifiers (4 gains, 1% accuracy), 12-bit DACs



#### ULTRA-LOW-POWER BASED ON CORTEX-M3: STM32 L1 SERIES

- Now operates at 20% lower power
- 0.9  $\mu$ A in Standby mode +RTC
- New STM32L100 Value line now available



#### ENTRY LEVEL BASED ON CORTEX-M0: STM32 F0 SERIES

- From 16- to 128-Kbyte\* embedded Flash
- Comes with even smaller package (TSSOP20)
- New STM32F030 Value line now available

Note: \* 128-Kbyte devices will be available in Q4/2013.

# STM32 - THE LEADING CORTEX-M PORTFOLIO

