life.augmented

STSW-STM32036

Power consumption optimization with STM32F3xx microcontrollers

Data brief

Features

- Power-saving methods and features.
- Current consumption measurements.
- Low-power application case.
- · Sleep, Stop, Stand-By.
- Low-power peripherals: USART, COMP.

Description

Reducing power consumption while performing complex real time applications presents a major challenge for the recent embedded applications.

The STSW-STM32036 firmware describes how to optimize the power consumption of an application based on STM32F3xx microcontrollers (MCUs).

The STSW-STM32036 firmware runs on NUCLEO-F302R8 with STM32F302R8T6 MCU, 64KB flash memory, LQFP64 package, however can be tailored to any STM32F3 MCU.

The provided example is based on the USART, DMA, COMP, Timer, RTC peripherals using STM32F3xx low-power modes and features. For more details refer to application note AN4538.

Ordering information STSW-STM32036

Ordering information

STSW-STM32036 is available for free download from STMicroelectronics.

Revision history

Table 1. Document revision history

Date	Revision	Changes
05-Jan-2015	1	Initial release.



IMPORTANT NOTICE - PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2015 STMicroelectronics - All rights reserved

