

Achieving 32-bit timer resolution with software expansion for STM32Cube

Data brief

Features

- 32-bit input capture mode example using link system
- 32-bit input capture mode example using one timer only
- Two 32-bit output capture mode examples using link system
 - Active mode
 - Toggle mode
- Microcontrollers covered: STM32F1 Series and STM32L0 Series

Description

The X-CUBE-TIM-32RES embedded software package is an expansion of the STM32Cube embedded software libraries.

This firmware provides application use cases for the general-purpose-timer peripherals embedded in the STM32 microcontrollers.

The timers in microcontrollers can be linked together internally for timer synchronization or chaining purposes.

The X-CUBE-TIM-32RES describes how to use the link system to achieve the 32-bit resolution with two 16-bit timers.

For more details refer to *Achieving 32-bit timer resolution with software expansion for STM32Cube and Standard Peripheral Library* application note (AN2592).

Ordering information

X-CUBE-TIM-32RES is available for free download from the www.st.com web site.

Revision history

Table 1. Document revision history

Date	Revision	Changes
24-Nov-2016	1	Initial release.

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