

X-CUBE-SPI-EMUL

Full-duplex SPI emulation software expansion for STM32Cube

Data brief

Features

- Simplex/full-duplex, synchronous, serial communication
- Master and slave operations
- SPI clock up to 6 MHz in full-duplex mode with CPU operating at 168 MHz
- Programmable data word length: 8 and 16 bits
- · Programmable clock polarity and phase
- Programmable data order with MSB-first or LSB-first shifting
- Flexible GPIO usage: all GPIOs can be configured as SPI MOSI/MISO
- Status flags/interrupt

Description

The X-CUBE-SPI-EMUL embedded software provides an emulated simplex or full-duplex SPI in the master and slave modes.

The SPI emulator is needed in applications that require more SPIs.

The X-CUBE-SPI-EMUL embedded software also offers two examples of communication between a hardware and a software SPI.

For more details refer to the application note AN4678.



Ordering information X-CUBE-SPI-EMUL

1 Ordering information

X-CUBE-SPI-EMUL is available for free download from STMicroelectronics.

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Aug-2015	1	Initial release for features and description only.

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

