Implementing an emulated universal asynchronous receiver/transmitter on STM32F4 series

Data brief

Features

- Full duplex, asynchronous communications
- Full duplex mode up to 115200 bps
- Data length (5 up to 9 bits)
- Flexible GPIO use: all GPIOs could be configured as UART TX/RX

Description

The UART emulator is needed in applications that require more UARTs than the ones provided by STM32F4 microcontrollers.

The STSW-STM32156 firmware provides an emulated full-duplex UART which supports up to 9 data bits and up to115200 baud rates.

The STSW-STM32156 firmware also offers an example of communications between a hardware and a software UART.

For more details refer to application note AN4457.

www.st.com

Ordering information

STSW-STM32156 is available for free download from STMicroelectronics.

Revision history

Table 1. Document revision history

Date	Revision	Changes
31-Mar-2015	1	Initial release.

IMPORTANT NOTICE – PLEASE READ CAREFULLY