

Data brief

The STUSB1602 software library for the STM32F446



Features

- Application examples including full software frameworks and associated vendor info file (.VIF):
 - Source, sink and dual role port
 - Source, sink and dual role port with support of vendor define message and other PD3.0 optional messages
 - 2x dual role ports

Description

The STSW-STUSB012 is an STUSB1602 software library to be used in association with the MB1303 nucleo shield (available from the P-NUCLEO-USB002 evaluation board) and NUCLEO-F446ZE boards.

The library includes ready-to-use software frameworks for fast prototyping of most common applications scenario such as: single port basic source, sink or DRP but also more complex use cases with 2 dual role ports or including optional features of PD3.0 like: status, alert or extended messages, cable messages, billboard classes etc.

Projects are available with or without the RTOS.

Product status link		
STSW-STUSB012		
Related products		
STUSB1602	STUSB1602	
STM32F446	STM32F446	
NUCLEO-F446ZE	NUCLEO-F446ZE	

P-NUCLEO-USB002

P-NUCLEO-

USB002



47/

1 Project frameworks

□ | □ □ □ usbpd × Home Share ☐ Open → ☐ Select all χ Cut Move to 🗸 💢 Delete 🕶 **Edit ∷** Select none N Copy path Pin to Quick Copy New © Copy to → ■ Rename Paste shortcut A History Invert selection folder access Clipboard Organise Open Search usbpd Туре V 🔲 This PC STM32F446_MB1303_DRP_2PORTS 0 File folder > 🧊 3D Objects STM32F446_MB1303_DRP_ONLY 0 File folder > 🚮 Desktop STM32F446_MB1303_DRP_ONLY_noRTOS 0 File folder > 🖹 Documents STM32F446_MB1303_DRP_VDM 0 File folder > J Downloads STM32F446_MB1303_SNK_ONLY 0 File folder > 🄰 Music STM32F446_MB1303_SNK_ONLY_noRTOS 0 File folder > E Pictures STM32F446_MB1303_SNK_VDM 0 File folder > 📓 Videos STM32F446_MB1303_SRC_ONLY 0 File folder STM32F446_MB1303_SRC_ONLY_noRTOS 0 File folder > 🏪 Windows (C:) STM32F446_MB1303_SRC_VDM File folder

Figure 1. Project framework

DB4320 - Rev 1 page 2/4



Revision history

Table 1. Document revision history

Date	Version	Changes
09-Oct-2020	1	Initial release.

DB4320 - Rev 1 page 3/4



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. For additional information about ST trademarks, please refer to www.st.com/trademarks. 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.

© 2020 STMicroelectronics - All rights reserved

DB4320 - Rev 1 page 4/4