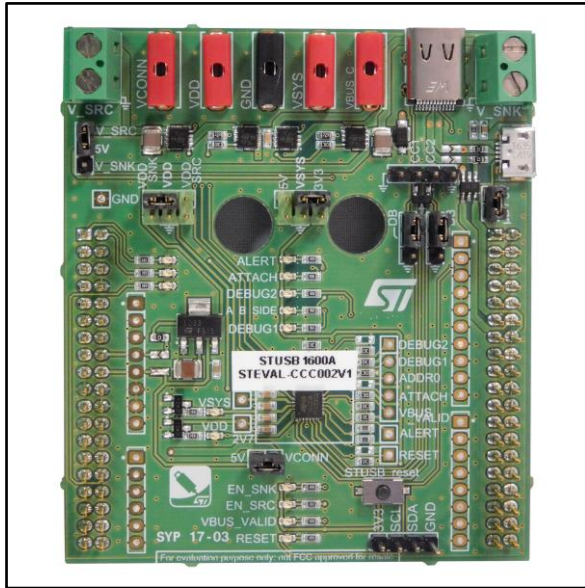


STUSB1600A Type-C™ controller evaluation board

Data brief



Description

The STEVAL-CCC002V1 evaluation board lets you prototype a full-featured 5 V USB Type-C port with STUSB1600A, which can be configured in a source, sink or dual power role.

Both source and sink V_{BUS} power paths are enabled directly by the STUSB1600A according to the port power role configuration and the attached device.

Jumpers are available to evaluate different power supply configurations for the STUSB1600A, based on the targeted application.

The various LEDs indicate the operating status of the STUSB1600A and USB Type-C port.

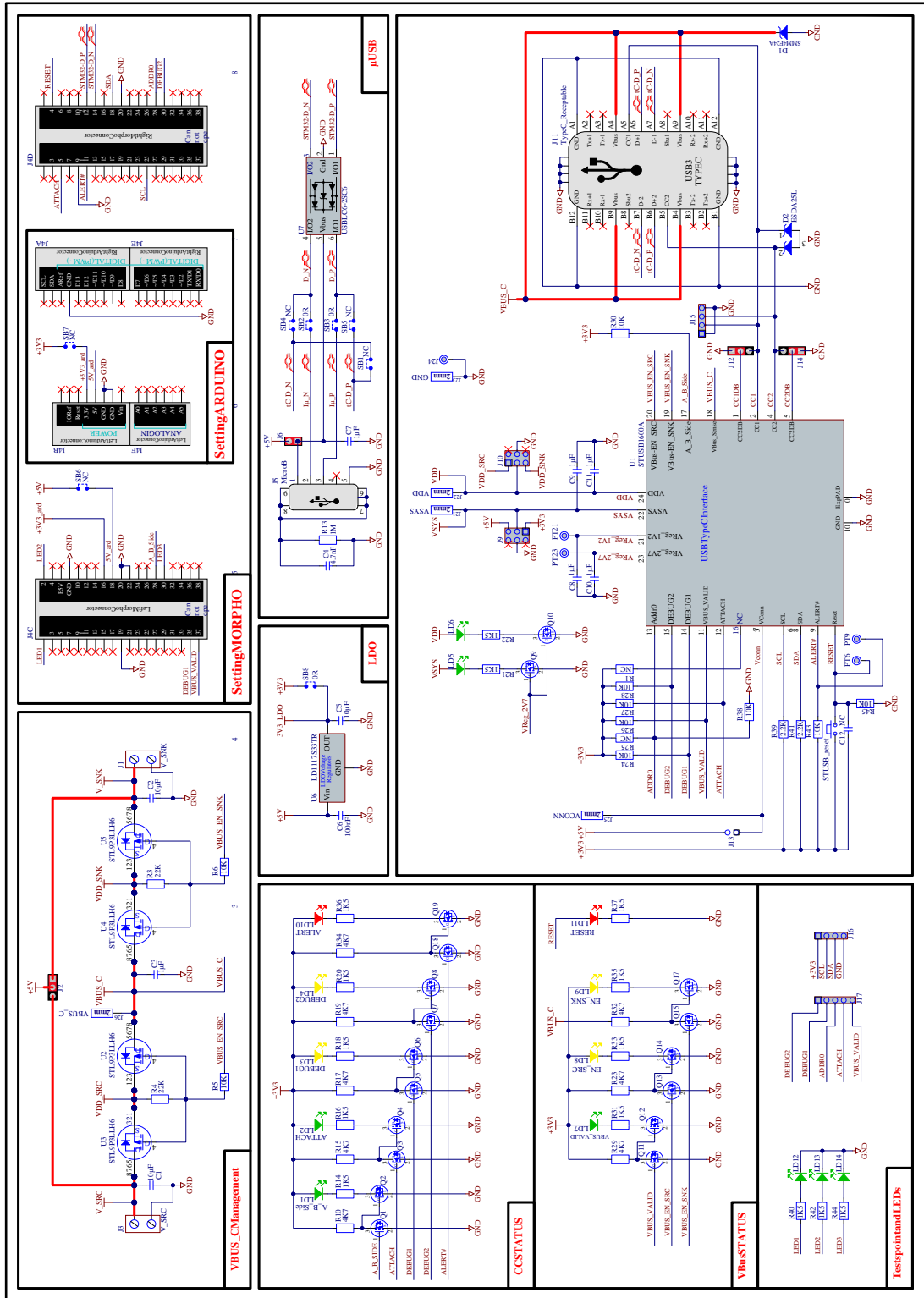
The USB Type-C port is pre-configured for 1.5 A USB Type-C current, Dual-role port and Dead Battery mode enabled.

Features

- 1 full-featured USB Type-C port (Source/Sink/Dual-role)
- STUSB1600A Type-C controller compliant with USB Type-C standard rel. 1.2 + ECR
- V_{BUS} power switches and discharge path
- V_{CONN} support (programmable current limit up to 600 mA)
- Dead Battery mode support
- Compatible with NUCLEO-F072RB board for configuration and debug interface

Schematic diagram

Figure 1: STEVAL-CCC002V1 circuit schematic



Revision history

Table 1: Document revision history

Date	Version	Changes
29-Sep-2017	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.

© 2017 STMicroelectronics – All rights reserved