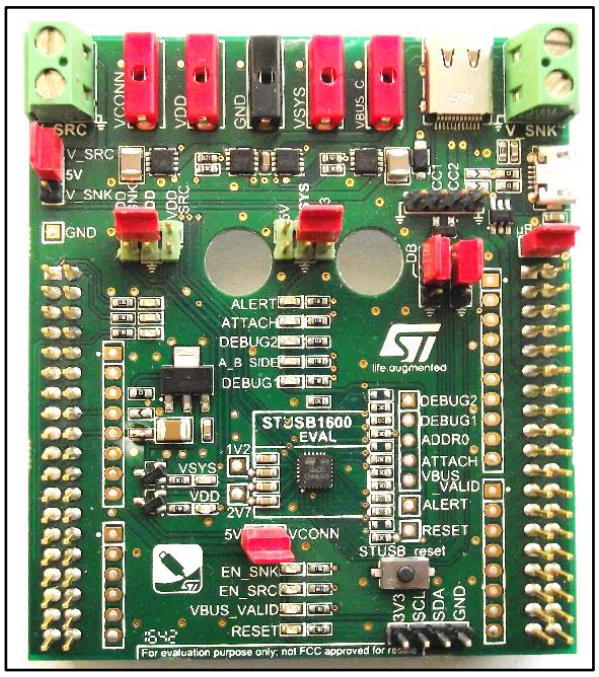
STEVAL-CCC001

STUSB1600 Type-C™ controller evaluation board

Data brief



Description

The STEVAL-CCC001 evaluation board allows prototyping of a full-featured 5 V USB Type-C port using the STUSB1600, 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 STUSB1600, depending on the port power role configuration and the attached device.

Jumpers are available to evaluate different power supply configurations of the STUSB1600 based on the target application.

The various LEDs indicate the operating status of the STUSB1600 and USB Type-C port.

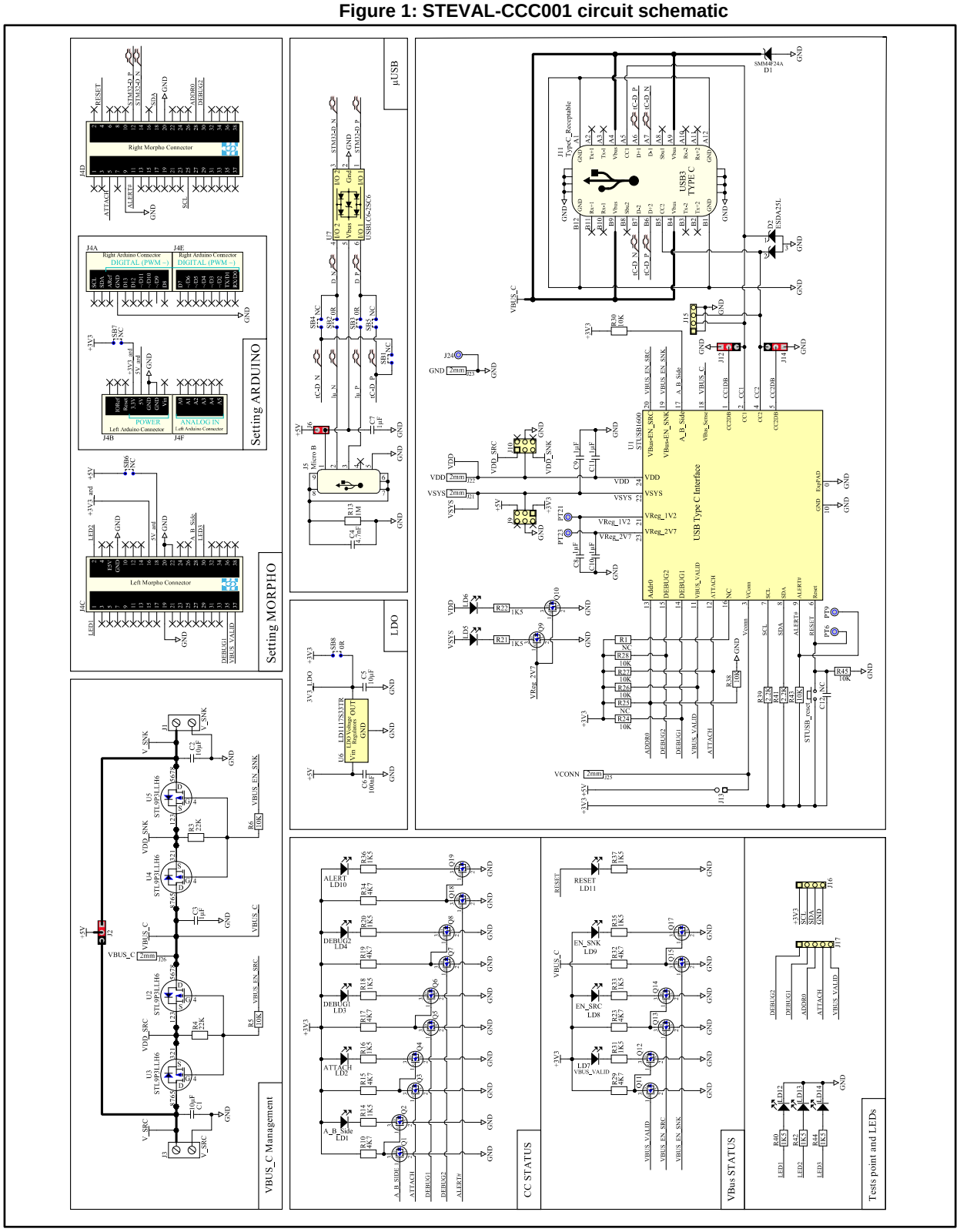
The USB Type-C port is pre-configured with the default USB current (500 mA or 900 mA), Dual-role port and Dead Battery mode enabled.

Features

- 1 full-featured USB Type-C port (Source/Sink/Dual-role)
- STUSB1600 Type-C controller (compliant with USB Type-C standard rel. 1.2)
- 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

1 Schematic diagram

Figure 1: STEVAL-CCC001 circuit schematic



2 Revision history

Table 1: Document revision history

Date	Version	Changes
04-Apr-2017	1	Initial release.

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