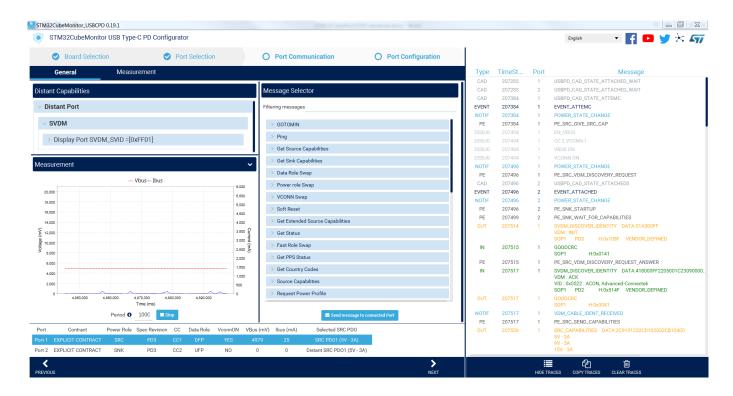


Data brief

STM32CubeMonitor-UCPD software tool for USB Type-C™ Power Delivery port management



Product status link
STM32CubeMonUCPD





Features

- Monitoring and configuring tool for USB Type-C[™] and USB Power Delivery applications using STM32 microcontroller
- Support of USB Type-C[™] 1.2 and USB PD 2.0/3.0 specifications
- · Multi-pane including:
 - Port configuration pane for Power Delivery (PD) setting, vendor defined messages (VDM), standard operating procedures (SOP), source and sink capabilities
 - Port communication pane for V_{BUS} and I_{BUS} monitoring, distant port capabilities, message selector, and real-time traces
- Multi-OS support: Windows[®], Linux[®], and macOS[®]
- Multi-language support: English, Chinese, French, Arabic
- GUI responder for communication between the target board and STM32CubeMonitor-UCPD



Description

STM32CubeMonitor-UCPD (STM32CubeMonUCPD) is a free software analyzer to monitor and configure USB Type- $C^{\mathbb{T}}$ and Power Delivery applications. It applies to any STM32 microcontroller running ST USB PD middleware stack. The development and the debug are simplified by key messages of USB PD protocol accessible through a convivial user interface. The developer can visualize in-live status and capability of any USB Type- $C^{\mathbb{T}}$ port (such as sink, source, or dual-role port), and USB PD packet messages during contract negotiation. The user can interact with the application environment by sending USB PD commands to the target board. The power or data role swap is executed in one click. The selection or the creation of new sink or source power profiles is made simple. The monitoring of analog parameters such as V_{BUS} or I_{BUS} is displayed in a specific measurement pane to facilitate the debug of the final application while the in-live debug trace pane allows visualizing message exchanges between the two ports.

DB3747 - Rev 1 page 2/6



1 Ordering information

STM32CubeMonitor-UCPD (STM32CubeMonUCPD) is available for free download from www.st.com.

DB3747 - Rev 1 page 3/6



2 License

 $STM32Cube Monitor-UCPD \ (STM32Cube MonUCPD) \ is \ delivered \ under \ the \ Mix \ Ultimate \ Liberty+OSS+3rd-party \ V1 \ (SLA0048) \ software \ license \ agreement.$

The STM32CubeMonitor-UCPD software tool runs on STM32 microcontrollers, based on Arm® cores.

Note: Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.

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DB3747 - Rev 1 page 4/6



Revision history

Table 1. Document revision history

Date	Version	Changes
28-Nov-2018	1	Initial release.

DB3747 - Rev 1 page 5/6



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DB3747 - Rev 1 page 6/6