

# TouchDot User Guide and Technical Reference

Release 0.0.1

Department of Research, Innovation, and Development

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**Note:** This documentation is actively evolving. For the latest updates and revisions, please visit the project's GitHub repository.

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### TERMS, ACKNOWLEDGMENTS, AND LICENSES

#### 1.1 Terms and Conditions

By using, modifying, or distributing the documentation, firmware, or hardware designs included in this repository, you agree to the following terms:

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- When redistributing or reusing any part of this project, you must retain attribution and comply with the corresponding license terms of each component.

# 1.2 Acknowledgments and Contributors

This project builds upon the work of several open-source developers and projects:

# 1.2.1 CMSIS-DAP (DAPLink Firmware for CH552)

- Stefan Wagner Project: CH552-DAPLink License: Creative Commons BY-SA 3.0 Description: CMSIS-DAP firmware and hardware design
- Ralph Doncaster Source: nerdralph/ch554\_sdcc Description: Original CMSIS-DAP firmware implementation for CH554 (SDCC)
- **Deqing Sun** Source: CH55xduino Description: CH552/CH554 Arduino-compatible toolchain

#### 1.2.2 USB-Blaster Firmware (CH552G)

- Vladimir Duan Project: CH55x-USB-Blaster License: MIT Description: USB-Blaster JTAG emulation for CH55x
- Blinkinlabs SDK Source: ch554\_sdcc Description: SDK for CH552/CH554 (SDCC)
- Doug Brown Blog: Fixing a Knockoff Altera USB Blaster Description: Insights into compatibility and firmware flashing

#### 1.3 Hardware License

All hardware designs (schematics, layouts, and design files) in this repository are released under the **MIT License**, allowing unrestricted use, modification, and distribution, provided the original license and attribution are retained.

#### 1.4 Resources and References

Table 1.1: Source URLs

Source URL		
https://github.com/wagiminator/		
CH552-DAPLink		
https://github.com/wagiminator/		
CH552-picoDAP		
https://github.com/DeqingSun/		
ch55xduino		
https://os.mbed.com/handbook/		
CMSIS-DAP		
https://github.com/VladimirDuan/		
CH55x-USB-Blaster		
https://sdcc.sourceforge.net/		
https://github.com/Blinkinlabs/ ch554_sdcc		

#### 1.5 Licenses

#### 1.5.1 Documentation & Visual Content

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#### 1.5.2 Firmware Projects

- CH552-DAPLink: Creative Commons BY-SA 3.0
  © Stefan Wagner
- CH55x-USB-Blaster: MIT License © Vladimir Duan
- CH55x SDK / Tools: MIT License © Blinkinlabs

#### 1.5.3 Hardware Repository

 All PCB designs and schematics are released under the MIT License.

**Note:** If you distribute this product with third-party firmware (e.g., CMSIS-DAP), you are responsible for ensuring license compliance. Only firmware developed by Unit Electronics and released under the MIT license is supported for commercial redistribution.

#### 1.5.4 Preloaded USB-Serial Firmware

This product may include preloaded firmware based on the project by **Kongou Hikari**: "USB to Serial Converter firmware for CH552T". Original source: [https://github.com/diodep/ch55x\_dualserial/tree/master] License: MIT

Under the terms of the MIT License, users are free to modify or replace the firmware. Unit Electronics provides this firmware for convenience only and does not offer performance guarantees.

### **HOW TO GENERATE AN ERROR REPORT**

This guide explains how to generate an error report using GitHub repositories.

### 2.1 Steps to Create an Error Report

#### 1. Access the GitHub Repository

Navigate to the GitHub repository where the project is hosted.

#### 2. Open the Issues Tab

Click on the "Issues" tab located in the repository menu.

#### 3. Create a New Issue

- Click the "New Issue" button.
- Provide a clear and concise title for the issue.
- Add a detailed description, including relevant information such as:
  - Steps to reproduce the error.
  - Expected and actual results.
  - Any related logs, screenshots, or files.

#### 4. Submit the Issue

Once the form is complete, click the "Submit" button.

## 2.2 Review and Follow-Up

The development team or maintainers will review the issue and take appropriate action to address it.