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Touch Workshop V4.1 Platform User Guide

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Introduction

The Touch Workshop V4.1 platform is a touch development platform, which has improved functions based on version V4.0. Users can freely match software packages, select parameters and select pins in the platform. After the software packages have been matched, users can add or create programs in the "USER PROGRAM". This document will introduce how to use the platform and introduce relevant development processes.

Platform Introduction

Functional Introduction

- 1. Supports drag, pull, click, select and other graphical operations.
- 2. Integrated application software package, such as touch, communication and LED driving, etc., which can be directly used.
- 3. Automatically generates simple circuit diagrams, flowcharts and software structure description.
- 4. Chart display and data quantification are convenient for signal analysis and parameter adjustment.
- 5. Provides program examples and simple editing tools for improving user development efficiency.

Tool Requirements

Emulation Development Tools (e-Link hardware & HT-IDE3000 software)



Debug Tools (BS-eBridge hardware & Touch Workshop V4.1)



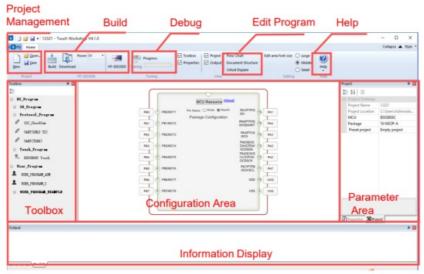


BS-eBridge

Debug Interface

Operation Interface Description

Main Interface



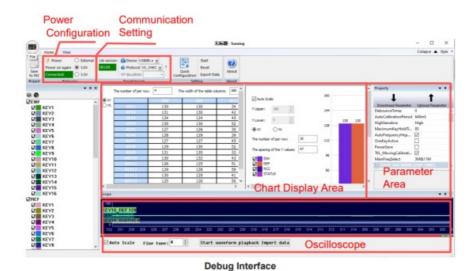
Platform Main Interface

- 1. Project Management: Provides different series of touch MCUs for selection.
- 2. Build: The platform can generate a programming file for the project.
- 3. Debug: Quantified display via an oscilloscope, real-time analysis of touch signals and parameter adjustment.
- 4. Help: Includes languages, user guide, upgrade firmware and platform version.
- 5. Toolbox: Application software package list.
- 6. Configuration Area: MCU emulation diagram for software package configuration and pin function configuration.
- 7. Parameter Area: Adjusts software package parameters.
- 8. The usage process of the platform main interface will have detailed introduction in the "Project Creation" section.

Debug Interface

- 1. Main functional area: Oscilloscope, form and energy bar display area.
- 2. Subfunctional area: Communication setting, parameter area and upload/download

parameter.



Platform Usage Process

- 2. Language Switch
- 3. There are English, Simplified Chinese and Traditional Chinese provided by the platform, for switching the platform language.

Platform Usage Process

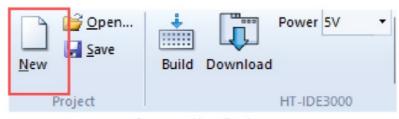
Language Switch

There are English, Simplified Chinese and Traditional Chinese provided by the platform, for switching the platform language.



Project Creation

1. Click on the "New"



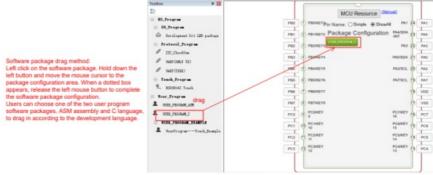
Create a New Project

2. Select the MCU type, project location and set the project name



Select MCU type

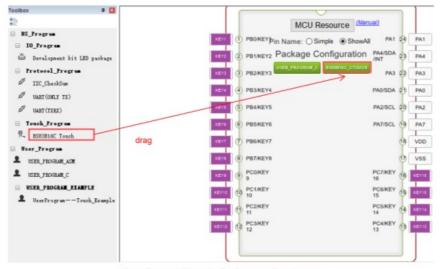
3. Drag the user program software package to the MCU configuration area



Drag in User Program

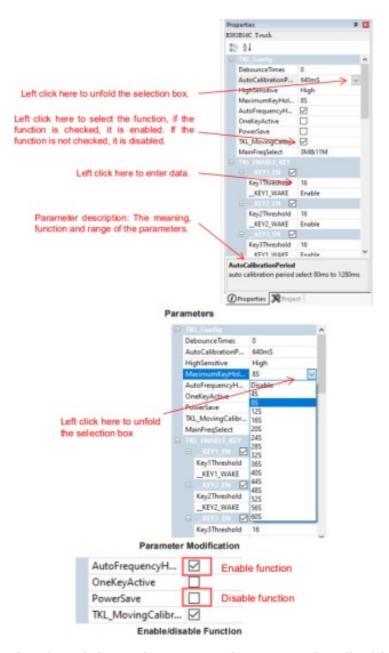
Touch Software Package Configuration Process

1. Drag the touch software package to the MCU configuration area



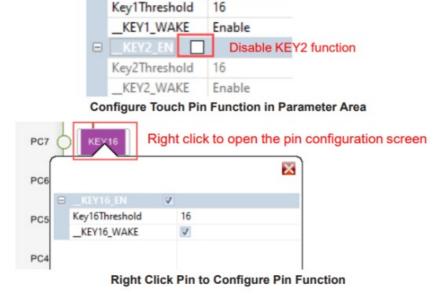
Configure Touch Software Package

2. Click the parameter fields to adjust the touch package parameters (Enable/disable function, adjust parameter values)



3. Touch pin configuration (touch keys that are not in use can be disabled if necessary)

□ _KEY1_EN ✓



Enable KEY1 function

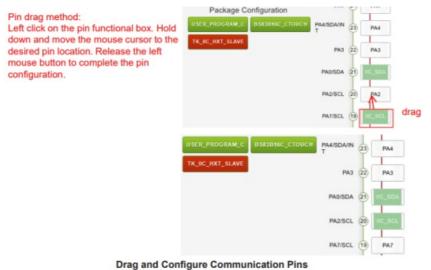
Debug Process

 Drag the communication package to the MCU configuration area (the touch communication package should be used with the touch package, otherwise an error message will be displayed)

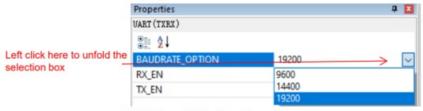


Drag Communication Software package

2. Configure communication pins (the default communication pins may be different from the required pins, the functional box can be dragged to the corresponding pin)

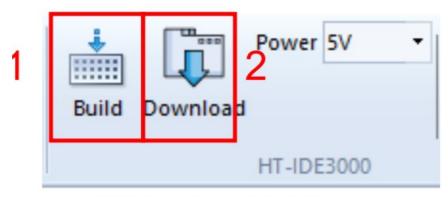


3. Configure communication package parameters (for example, the baud rate can be configured in the UART package)



UART Baud Rate Configuration

4. Write the program to the MCU (can be programmed directly via the e-Link)

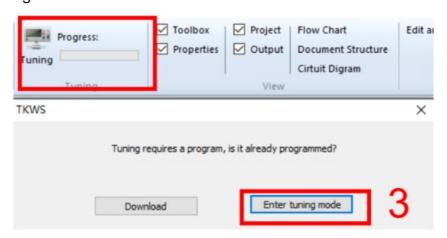


Platform Programming

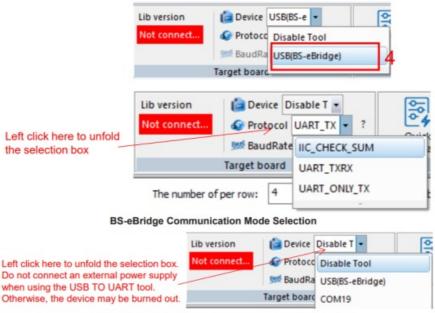
5. Connect the BS-eBridge to the MCU



6. Enter to the tuning mode



7. Configure the platform communication mode according to the communication package dragged in (the baud rate needs to be configured for the UART)



USB TO UART Tool Communication Mode Selection

8. Select the BS-eBridge power supply (for the first time using the debug mode, the BS-

eBridge firmware needs to be upgraded via clicking on the "Upgrade firmware")



BS-eBridge Voltage Selection

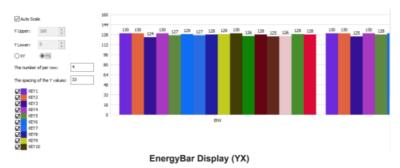
9. Start to debug, communication is successful



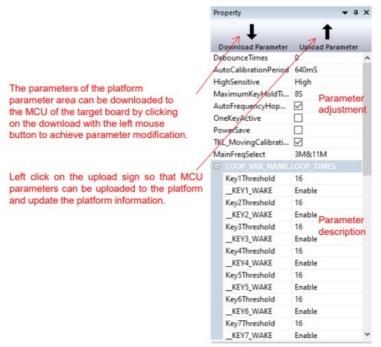
Communication Success Interface

10. Switch the "Form/EnergyBar" according to the requirement and select the X/Y arrangement





11. Analyze the touch waveform, modify the touch parameters and download to the target development board



Parameter Modification Area

Trouble Shooting

- Tool is not connected
- Check whether the hardware device has been detected
- Upgrade firmware on the platform
- Tool firmware upgrade is failed
- Connect the USB line to the computer USB slot directly, while not the USB HUB
- Product failed to connect
- Confirm whether the platform specific communication program has been load
- Confirm whether the hardware UART communication pins have been configured correctly
- If the development board is used, it needs to confirm whether the hardware short circuit pin has been configured correctly

Conclusion

The Touch Workshop V4.1 platform can make it simple and efficient to generate a touch project.

It allows users to quickly adjust the touch parameters, efficiently edit the program and also drag in the communication software package for touch debug. In addition, the product touch signals can be digitized to facilitate users to confirm the touch status of the product.

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Documents / Resources

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Touch Workshop V4.1 Platform User Guide

HOLTEK V4.1 Touch Workshop Platform [pdf] User Guide

Person VI III Date April I IIII

V4.1, V4.1 Touch Workshop Platform, V4.1, Touch Workshop Platform, W orkshop Platform, Platform

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- User Manual
 - HOLTEK, PLATFORM, Touch Workshop Platform, V4.1, V4.1 Touch Workshop Platform, Workshop
- HOLTEK Platform

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