



Technical notes on using Analog Devices products and development tools

For further information contact your local Field Applications Engineer.

SDP-K1 - IAR Embedded Workbench Project User Guide for ADBMS6830

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1 Introduction

The document describes the instruction to use ADBMS6830 demo board with SDP-K1 evaluation board (also known as EVAL-SDP-CK1Z) on IAR Embedded Workbench.

This serves as additional note to the "*SDP-K1 MBED Keil Studio User Guide for ADBMS6830*" where in the Hardware Setup is explained.

2 IAR Embedded Workbench installation (IDE)

Download IAR Embedded Workbench (Install 8.42.1 or latest version): <https://www.iar.com/products/architectures/arm/iar-embedded-workbench-for-arm/>. You may have to use Trial license, or the full license.

Compile and Run the code

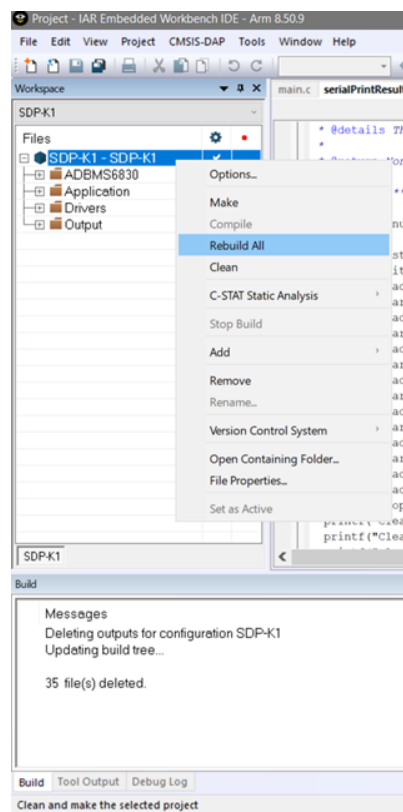
1. Open from other workbench -> EWARM.

Name	Type
ADBMS6830	File folder
Drivers	File folder
EWARM	File folder
Inc	File folder
Src	File folder

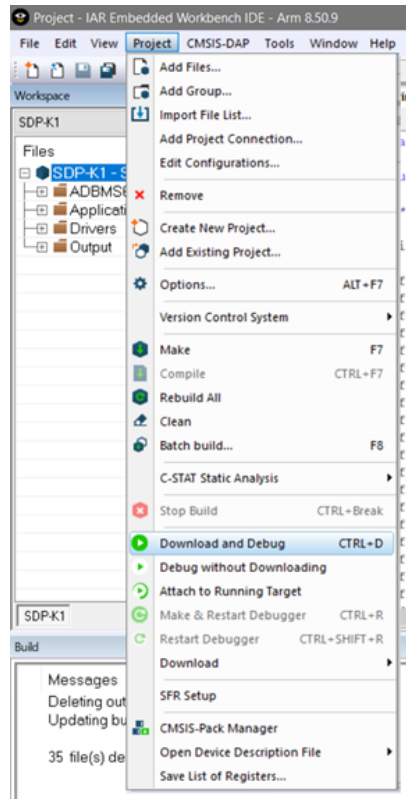
2. open *Project.eww* workspace in IAR workbench.

Name	Type
Backup of SDP-K1.ewd	EWD File
Backup of SDP-K1.ewp	EWP File
Backup of SDP-K1.ewt	EWT File
Project.eww	IAR IDE Workspace
SDP-K1.dep	DEP File
SDP-K1.ewd	EWD File
SDP-K1.ewp	EWP File
SDP-K1.ewt	EWT File
startup_stm32f469xx.s	Assembler Source
stm32f469xx_flash.icf	ICF File
stm32f469xx_sram.icf	ICF File

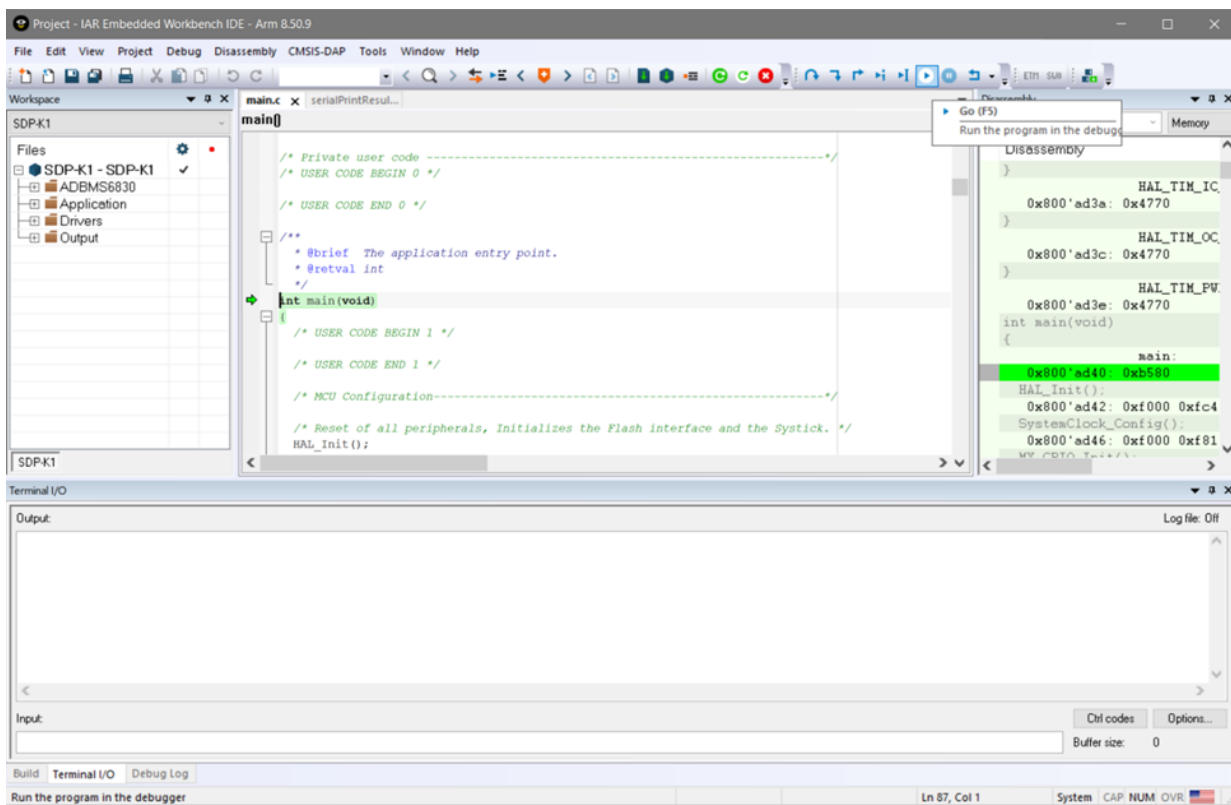
3. Rebuild the IAR SDP-K1 Project.



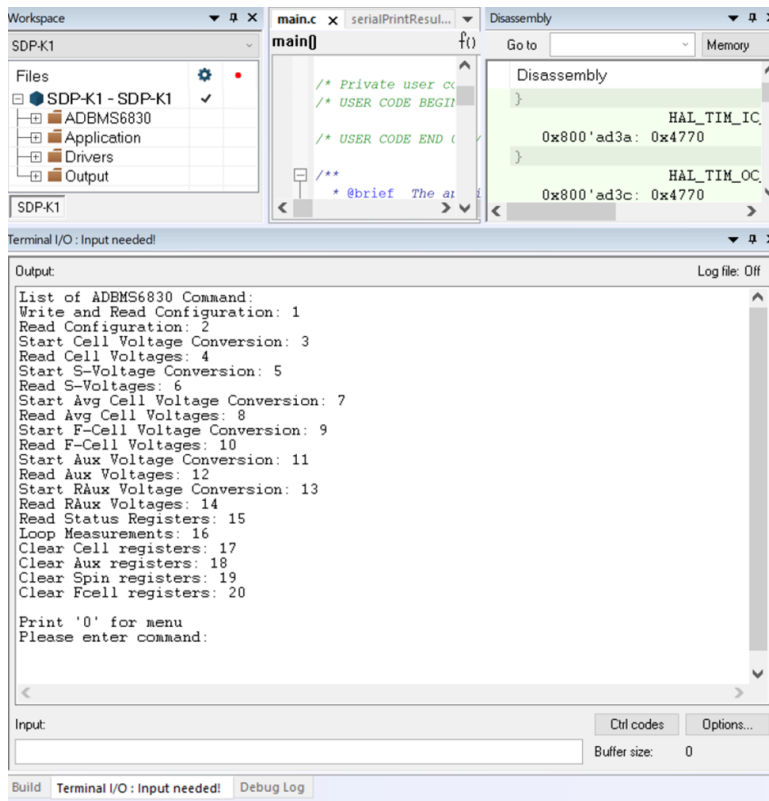
4. Connect SDP-K1 board in USB port then *Download and Debug* (Ctrl + D).



5. After successful flash programmed, program break at main, would look like...



5. Push `Go (F5)`
7. Display menu correspond send command and check output result in *Terminal I/O*. In case COM port "*mbed Serial Port(COM xx)*" is open in another Terminal program, this might fail sometimes.



3 Related Resources

Engineers User Guide "SDP-K1 MBED Keil Studio User Guide for ADBMS6830"

IAR Embedded Workbench for ARM : <https://www.iar.com/products/architectures/arm/iar-embedded-workbench-for-arm/>

4 Document History

Revision	Description
Rev. Preliminary 0.1 - August 2022 by Pramod Pundyavana Krishna	Initial Document