

Low Voltage H-Bridge Software Driver

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Content

This archive contains embedded SDK SW driver for Low Voltage H-bridges (LVHB) and example projects for Kinetis Design Studio 3.2.0 or newer.

Supported low voltage H-bridges models are MPC17510, MPC17511, MPC17C724, MPC17529, MPC17531A, MPC17533 and MC34933.

This archive contains the files listed in Table 1.

Table 1. Content of the Archive

Folder Name	Folder Contents
KDS_Examples	Example project folder for Kinetis Design Studio 3.2.0 or newer.
LVHB_K64F_17510EJ-EVB_Brush	The purpose of this example project is to demonstrate how to control a DC brushed motor using single H-Bridge device, FRDM-K64F and the Low Voltage H-Bridge SW Driver.
LVHB_K64F_1751xEVB_Brush	The purpose of this example project is to demonstrate how to control a DC brushed motor using single H-Bridge device, FRDM-K64F and the Low Voltage H-Bridge SW Driver.
LVHB_K64F_34933EP-EVB_Brush	The purpose of this example project is to demonstrate how to control two DC brushed motor using dual H-Bridge device, FRDM-K64F and the Low Voltage H-Bridge SW Driver.
LVHB_K64F_34933EP-EVB_Stepper_GPIO	The purpose of this example project is to demonstrate how to control a stepper motor via four GPIO MCU pins using dual H-Bridge device, FRDM-K64F and Low Voltage H-Bridge SW Driver.
LVHB_K64F_34933EVB_Brush	The purpose of this example project is to demonstrate how to control two DC brushed motor using dual H-Bridge device, FRDM-K64F and the Low Voltage H-Bridge SW Driver.
LVHB_KL25Z_17510EJ-EVB_Brush	The purpose of this example project is to demonstrate how to control a DC brushed motor using single H-Bridge device, FRDM-KL25Z and the Low Voltage H-Bridge SW Driver.
LVHB_KL25Z_17510EJ-EVB_Brush_FreeMASTER	The purpose of this example project is to demonstrate how to use FreeMASTER application along with Low Voltage H-Bridge SW Driver to control DC brushed motor.
LVHB_KL25Z_34933EP-EVB_Brush	The purpose of this example project is to demonstrate how to control two DC brushed motor using dual H-Bridge device, FRDM-KL25Z and the Low Voltage H-Bridge SW Driver.
LVHB_KL25Z_34933EP-EVB_Stepper_GPIO	The purpose of this example project is to demonstrate how to control a stepper motor via four GPIO MCU pins using dual H-Bridge device, FRDM-KL25Z and Low Voltage H-Bridge SW Driver.
LVHB_KL27Z_34933EVB_Brush	The purpose of this example project is to demonstrate how to control two DC brushed motor using dual H-Bridge device, FRDM-KL27Z and the Low Voltage H-Bridge SW Driver.
LVHB_KL27Z_34933EVB_Stepper_FreeMASTER	The purpose of this example project is to demonstrate how to use FreeMASTER application along with Low Voltage H-Bridge SW Driver to control a stepper motor.
LVHB_KL27Z_VariousEVB_Stepper	The purpose of this example project is to demonstrate how to control a stepper motor using dual H-Bridge device, FRDM-KL27Z and Low Voltage H-Bridge SW Driver.
LVHB_KL27Z_VariousEVB_Stepper_Ramp	The purpose of this example project is to demonstrate how to control a stepper motor with enabled acceleration ramp using dual H-Bridge device, FRDM-KL27Z and Low Voltage H-Bridge SW Driver.
Programmer_Guide	This folder contains detailed API documentation of this SW driver.
SDK_SW_Driver	Low Voltage H-Bridge SDK SW Driver folder. This folder contains two subfolders aml and lvhb . Note that files in lvhb folder depends relatively on files in aml folder.

Licensing

The SW driver in this archive is available for free and without any warranty.