Example for the FS65 driver

General information

The purpose of this demo application is to show how to use the FS65 generic driver with the Panther MCU (using S32 SDK). The application uses standard serial port for diagnostics output.

The application starts with MCU peripherals initialization and FS65 initialization. Then the watchdog is activated and periodically refreshed. If Fault Error Counter value is 0, FSxb safety outputs are released.

Status information and MUX_OUT measured values are printed out periodically.

Requirements

Software

- [S32 Design Studio for Power Architecture](#) (version 2017.R1) with update [S32 Design Studio for Power Architecture 2017.R1 Update 9 SDK PA RTM 2.0.0](#) installed.
- Serial Terminal Console (e.g. PuTTY, Realterm, ...).

Hardware

- DEVKIT-MPC5744P

Setup

- DEVKIT-MPC5744P board connected via the USB to the PC and serial console connected to appropriate COM port.
- If the software debugging or flashing is needed, the SBC DEBUG mode must be enabled by the appropriate jumper setting.
- Run S32 Design Studio and import example project (File -> Import -> Existing Projects into Workspace).
- Power-up the DEVKIT board and start debugging (Run -> Debug) or flash the software (Run -> Flash from file…).