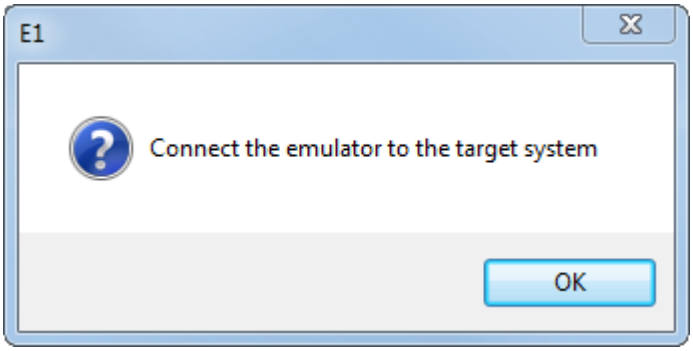
The hot plugin startup-sample includes the following functions:

- Initialization of the on-chip-debug interface
- Basic initialization of the microcontroller
- Setup of a 10 ms interval timer
- Setup of INTP0 as external interrupt
- Setup of I/O ports

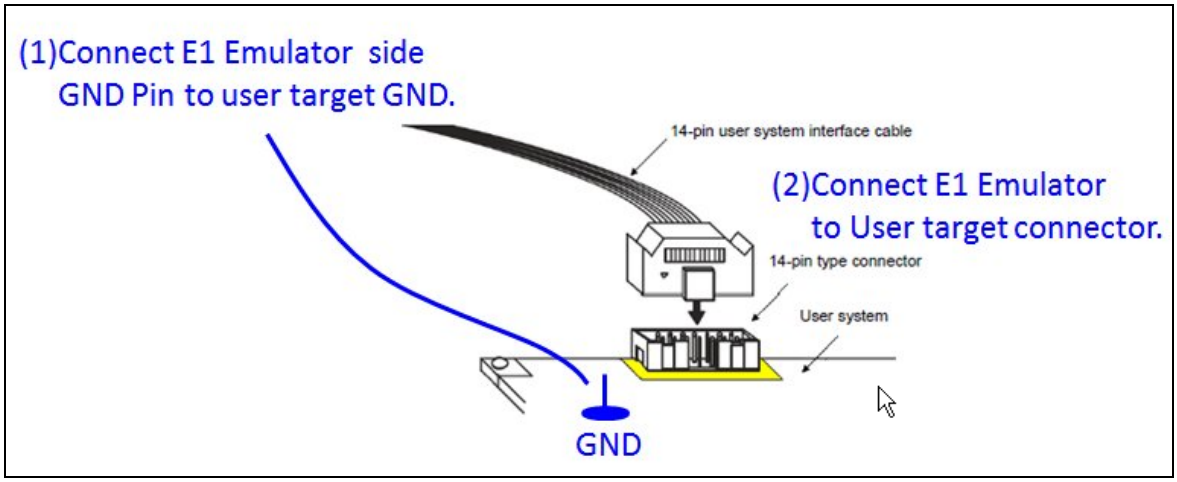
At start both LEDs LED01 and LED02 are flashing in a 1 s interval.
Each click of switch SW1 increases the interval time of LED02 by 100 ms.
Before starting the sample, please make sure the connection to the target board is correct.
For details about E1 emulator please refer to E1 landing page.

1. Hot Plugin Procedure:

a) Start EWRL78 and open Workspace (*.eww)
b) Rebuild the application
c) Connect external power supply to targetboard.
d) Program intel-hex file of the application to targetboard by using RFP and E1emulator.
e) Disconnect E1 emulator from targetboard. The application is running now.
f) Make external GND connection (see below figure1).
g) Start C-SPY debug session.
h) Connect E1 emulator when the following message occurs:



i) Confirm message.



2. Necessary Application Changes to allow Hot Plugin:

a) Add the module ‘hpi_init.asm’ to the project

b) Call initialization hot plugin initialization function ‘hpi_initialize_prog()’ at application start (e.g. in function ‘ __low_level_init’)

c) Set bit7 and bit1 of OCD option byte at address 0x00C

d) Rebuild application