

TI C2000 Toolbox GPIO DI

This document describes *GPIO DI* component, from TI C2000 Toolbox library.

Short description

GPIO DI component allows the user to read the value of the digital input pin of the controller.

Detailed overview

NOTE: It is recommended to select *target platform* on [TI C2000 Setup](#) component before configuring the component.

Target-oriented component

Component properties:

- Port – select GPIO port,
- GPIO – select number of the GPIO pin,
- Execution rate – sampling rate of the GPIO input pin.

Component outputs:

- GPIOy – bitfield of *GPxDAT* register with respect to the selected GPIO pin, *x* being the port label, and *y* GPIO number.



Figure 1. GPIO DI - component mask.

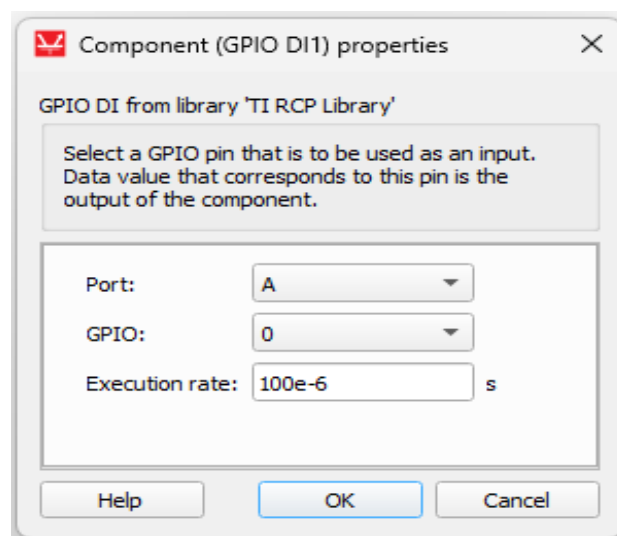


Figure 2. GPIO DI - component dialog

Application-oriented component:

Component properties:

- Tab **General**:
 - HIL DO number - specify number of HIL device digital output,
 - Execution rate - sampling rate of the selected HIL digital output pin.
- Tab **HIL Interface**:
 - Interface type - select interface board that is used, currently supported boards are '*HIL TI Launchpad Interface*' and '*HIL TI uGrid Launchpad Interface*',
 - Controller index - visible when '*HIL TI uGrid Launchpad Interface*' is selected, specifies which MCU slot on the interface board is used.

NOTE: It is recommended to select *interface type* and *controller index* before configuring other properties.

Component outputs:

- DOx – state of the selected HIL digital output pin, x being number of the HIL digital output.



Figure 3. GPIO DI (Generic) - component icon.

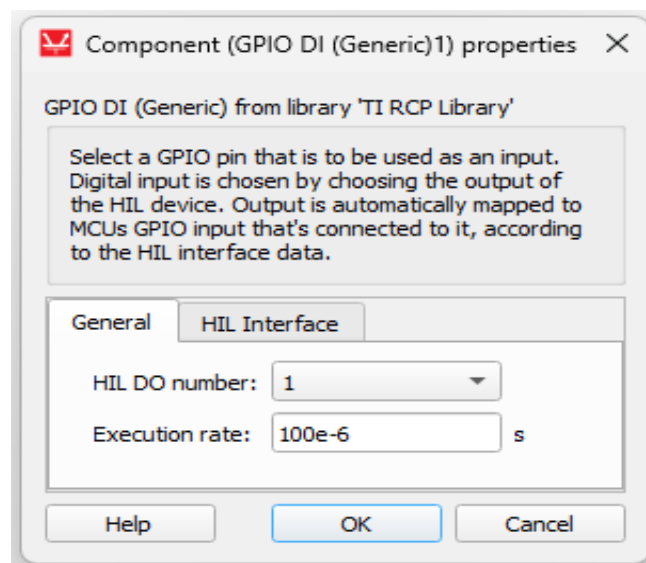


Figure 4. GPIO DI (Generic) - component dialog – general tab.

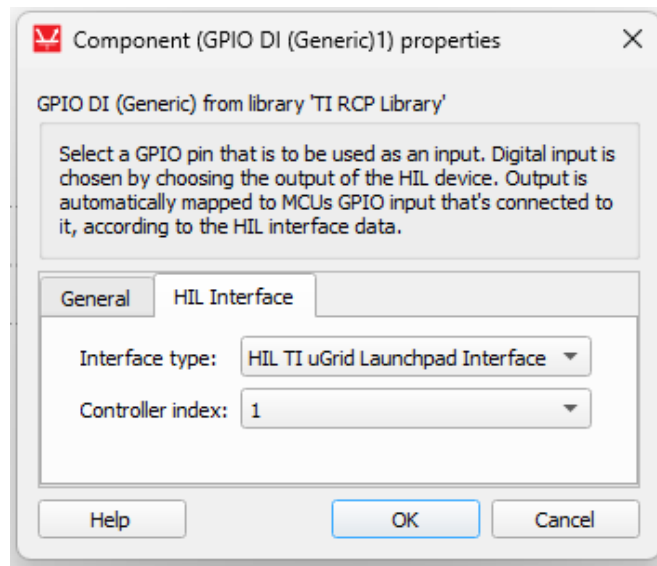


Figure 5. GPIO DI (Generic) - component dialog - HIL Interface tab.