

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.



Figure 1. GPIO DI - component icon.

Detailed overview

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

Component properties:

- Port – select GPIO port,
- GPIO – select number of the GPIO pin,
- Logic – logic that will be applied to digital input (*active low* or *active high*),
- Execution rate – sampling rate of the GPIO input pin. This value must be compatible with other components of the same subsystem: the value must be a multiple of the fastest execution rate in the circuit. To specify the execution rate, you can use either decimal (e.g. 0.001) or exponential values (e.g. 1e-3) in seconds.

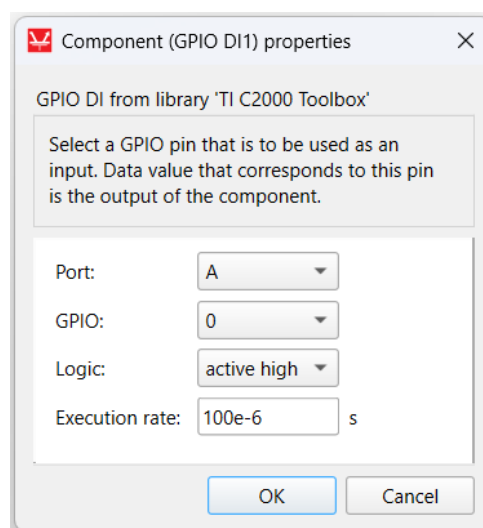


Figure 2. GPIO DI - component dialog

Component outputs:

- GPIOy – bitfield of *GPxDAT* register with respect to the selected GPIO pin, *x* being the port label, and *y* GPIO number.
 - Supported types: uint,
 - Vector support: no