

# TI C2000 Toolbox SCI Receive

This document describes *SCI Receive* component from TI C2000 Toolbox library.

## Short description

*SCI Receive* component enables user to configure data receiving functionality of the *Serial Communication Interface* peripheral.

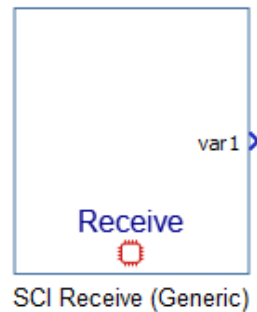


Figure 1. SCI Receive component icon.

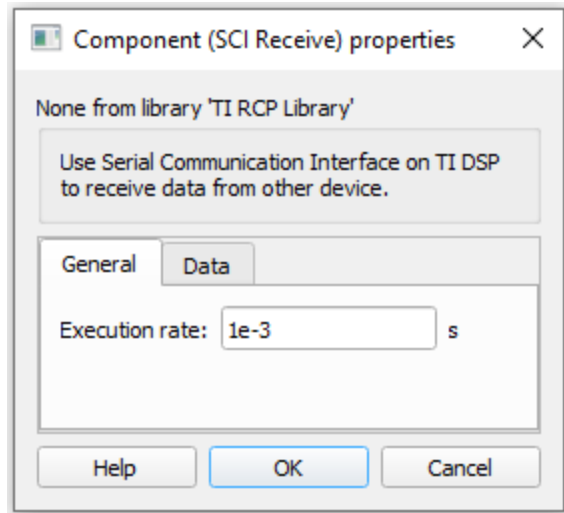
## Detailed overview

**NOTE:** It is recommended to select *target platform* on [TI C2000 Setup](#) component before configuring the component. **Exactly one SCI Receive component must be used!**

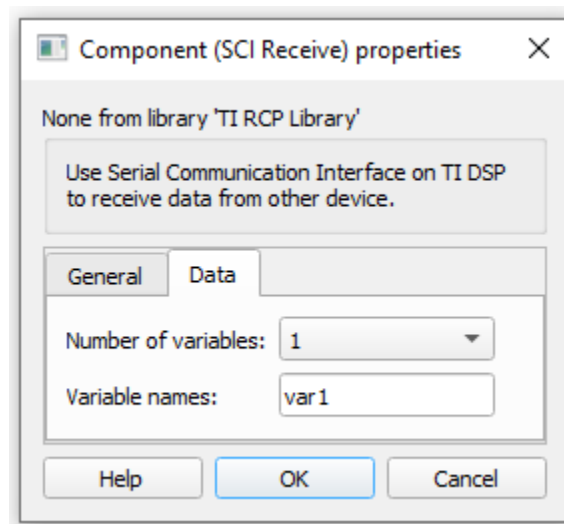
### Component properties:

- Tab **General:**
  - Execution rate – rate of calling the *SCI* receiving function which executes only when MCU input data buffer is **not** empty.
- Tab **Data:**
  - Number of variables – amount of variables to receive, separate output is created for every variable, maximum is 4,
  - Variable names – string with every variable name. Number of labels should match selected value of *Number of variables* property (e.g. var1, var2).

**NOTE:** Receiving strings is not supported!



**Figure 2. SCI Receive component dialog - General tab.**



**Figure 3. SCI Receive component dialog - Data tab.**

**NOTE:** For utilizing serial communication between *HIL SCADA* and TI DSP, a SCADA counterpart is available as [SCI Write widget](#). *SCI Write* widget writes messages defined by [SCI Receive \(Generic\)](#) component that will be received by the DSP. Number of [SCI Write widgets](#) should match *Number of variables* parameter on Figure 3.