

# TI C2000 Toolbox SCI Setup (Generic)

This document describes *SCI Setup* (Generic) component from TI C2000 Toolbox library.

## Short description

*SCI Setup* (Generic) component is used to configure serial communication parameters on TI device. It is used to parametrize *Serial Communication Interface* peripheral and it has no inputs or outputs. Selected settings will be applied to SCI module(s) used by [SCI Send \(Generic\)](#) and [SCI Receive \(Generic\)](#) components if they are used.

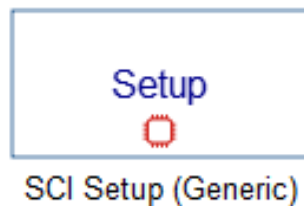


Figure 1. SCI Setup (Generic) - component icon.

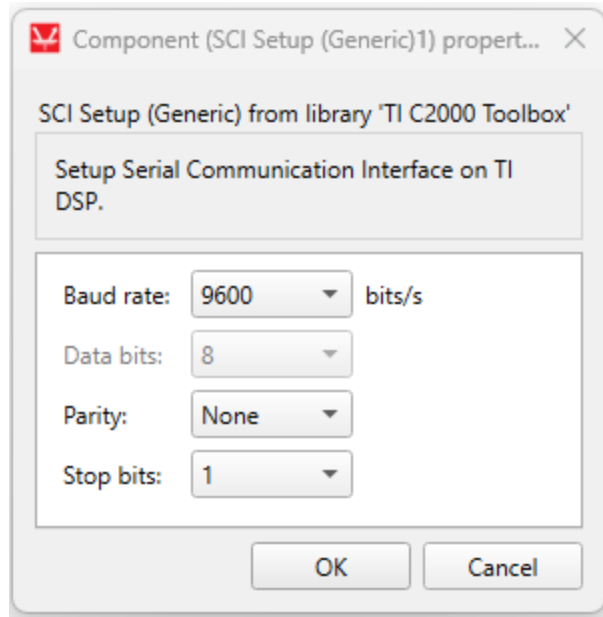
## Detailed overview

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

### Component properties:

- Tab **General:**
  - Baud rate – number of bits per second, uses standardized values, maximum amount is 460800 or 230400 on some devices.
  - Data bits – 8 (cannot be changed).
  - Parity – select type of parity (None, Odd or Even). If value is *None*, no parity bit will be used.
  - Stop bits – number of stop bits in message data frame (1 or 2).

**NOTE:** These parameters must be the same on both devices that are communicating!



**Figure 2. SCI Setup (Generic) - component dialog.**

**NOTE** For utilizing serial communication between *HIL SCADA* and controller (through USB connection between PC and controller – if *Access port* is set to *USB*), a SCADA counterpart is available as [SCI Setup widget](#). Widget parameters must match the ones from SCI Setup (Generic) component used for code generation.

**NOTE:** In context of serial communication between HIL device and the controller (through digital pins – if *Access port* is set to *DIO*) [Serial Setup](#) component must be configured to have the same parameters as [SCI Setup \(Generic\)](#) component used for code generation.