

TI C2000 Toolbox SCI Setup

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

Short description

SCI Setup is the main component for configuring serial communication between MCU and PC. It is used to parametrize *Serial Communication Interface* peripheral. The selected settings will be applied to *SCI Send* and *SCI Receive* components if they are used. It does not have any inputs or outputs.

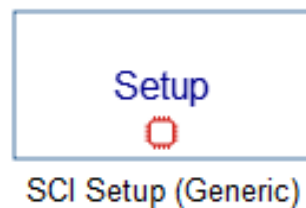


Figure 1. SCI Setup component icon.

Detailed overview

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

Component properties:

- Tab **General:**
 - Module – select SCI peripheral module,
 - Baud rate – number of bits per second, uses standardized values, maximum amount is 460800,
 - Use COM port – checked if data is transferred between PC USB port and MCU XDS debug probe, otherwise specify MCU GPIO pins for transmitting and receiving,
 - Execution rate.

NOTE: If *Use COM port* is checked, property *Module* can be only 'a'!

- Tab **Extras:**
 - Enable parity – checked if parity bit is included in message data frame,
 - Parity – visible only when *Enable parity* is checked – select type of parity,
 - Stop bits – number of stop bits in message data frame.

NOTE: SCI Setup settings on must be the same on both devices that are exchanging data!

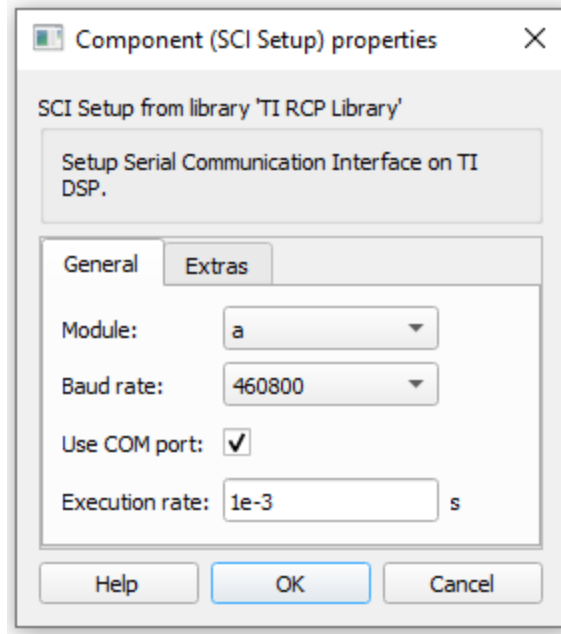


Figure 2. SCI Setup Component dialog - General tab.

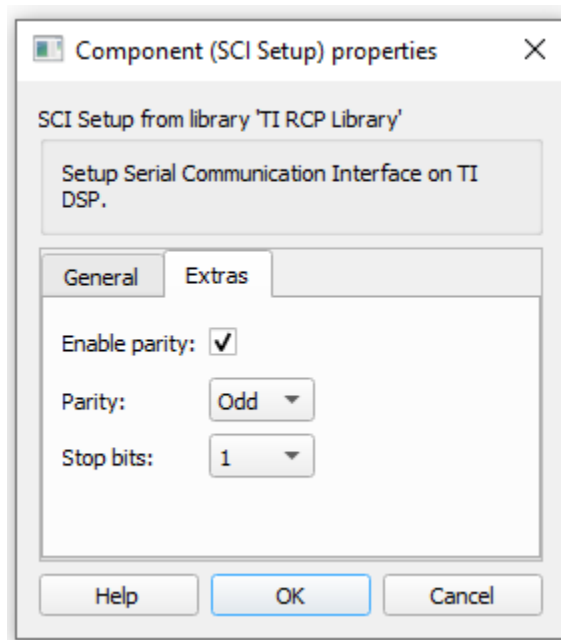


Figure 3. SCI Setup component dialog - Extras tab.

NOTE: For utilizing serial communication between *HIL* SCADA and TI DSP, a SCADA counterpart is available as [SCI Setup widget](#). Widget parameters must match the ones from [SCI Setup \(Generic\)](#) component used for code generation.