

TI C2000 Toolbox SCI Send

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

Short description

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

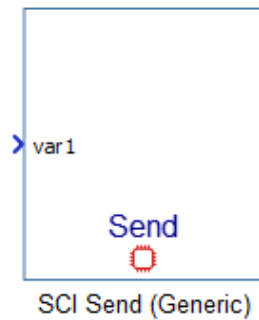


Figure 1. SCI Send component icon.

Detailed overview

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

Component properties:

- Tab **General:**
 - Execution rate – rate of calling the sending function. In some cases function first checks if certain condition for initiating transmitting is met (see *Sending pace*),
 - Sending pace – events when data transmitting is initiated:
 - 'execution rate' – sends data on every execution rate,
 - 'ex rate on active trigger' – sends data on every execution rate only when external trigger is active (greater than zero), separate input will appear for trigger channel,
 - 'on ping' – sends data upon external ping arrival.

IMPORTANT NOTE: In case when serial communication is used to interact with HIL SCADA Widgets, it is required to use '*on ping*' sending pace option. Widgets will ping the controller in order to avoid buffer overflow.

- Tab **Data:**
 - Number of variables – separate input is created for every variable, maximum amount is 4,

- Variable names – string with every variable name. Number of labels should match *Number of variables* (e.g. var1, var2).

NOTE: Sending strings is not supported!

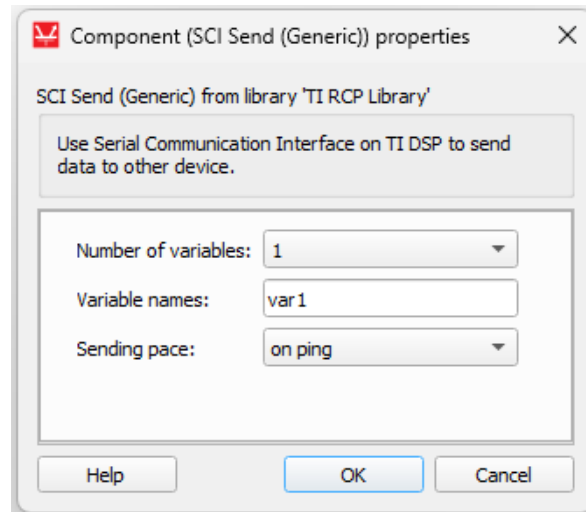


Figure 2. SCI Send component dialog.

NOTE: For utilizing serial communication between *HIL SCADA* and TI DSP, a SCADA counterpart is available as [SCI Read widget](#). *SCI Read* widget reads messages sent by the DSP and defined by [SCI Send \(Generic\)](#) component. Number of [SCI Read widgets](#) should match *Number of variables* parameter on Figure 2.