

# Promira Serial Platform Quick Start Guide

## Introduction

These getting started guidelines are intended to facilitate the first use of the Promira Serial Platform with I2C/SPI Active - Level 1 application. The Promira platform can be used with Control Center Serial or the Promira API to communicate with any standard I2C/SPI device. Use the Promira platform with Control Center Serial, and follow the instructions below to communicate with a standard I2C/SPI device.

All current downloads for the Promira platform can be found on the [product page downloads](#).

## Getting Started Guidelines

1. Connect the Promira platform to the PC via the USB connector.
2. Follow the instructions in [Section 3.2 - Connectivity](#) of the Promira platform user Manual to configure the Ethernet over USB interface.
3. [Download](#) and unzip the latest version of Control Center Serial that supports the Promira platform. (?)
4. Launch Control Center Serial. (?)
5. Connect Control Center Serial to the Promira platform. (?)
  1. Click Adapter.
  2. Click Connect.
  3. Select the adapter.
  4. Click OK to connect to the adapter.
6. Connect the Promira adapter Provided Cable 10x34 or 34x34 to the target system. (?)
  1. If you have the Beagle I2C/SPI Host analyzer and the I2C/SPI Activity Board, then you can use these tools to setup a target system to test the capabilities of the devices. For additional information, take a look at the [Beagle analyzer user manual](#) and the [I2C/SPI activity board user manual](#).
7. The Promira platform is capable of communicating with I2C or SPI traffic in Master or Slave mode. Depending on the system requirements, configure the device accordingly. (?)
  1. Click Adapter, and choose I2C+SPI.
  2. Optionally, click Adapter, and enable I2C Pulls-Ups. (?)
  3. Click Adapter, and configure Target Power (pin 4, 6), Target Power (pin 22, 24), and Level Shift. (?)
  4. Configure the Device Settings for I2C-Master using the I2C Control panel. (?)
    1. Configure the Bitrate.
    2. Click on the Master tab.
    3. Supply the 7-bit I2C Slave Address. (?)
    4. Optionally, configure 10 Bit Addr, No Stop, Message, Number of Data Bytes, Register Address, Address Width, and Number of Data Bytes based on the parameters of the target system.
    5. Click Master Write, Master Read, or Master Reister Read based on the target system application.
  5. Configure the Device Settings for I2C-Slave using the I2C Control panel. (?)
    1. Configure the Bitrate.
    2. Click on the Slave tab.
    3. Supply the 7-bit I2C Slave Address.
    4. Optionally, configure Max Tx Bytes, Max Rx bytes, and Slave Response Message based on the parameters of the target system.
    5. Click Set Resp. for setting a slave response.
    6. Click Enable to activate the adapter as an I2C slave.

6. Configure the Device Settings for SPI-Master using the SPI Control panel. [\(?\)](#)
  1. Configure the Bitrate.
  2. Click on the Master tab.
  3. Configure the Polarity, Phase, Bit Order, SS Polarity, and MOSI Message based on the parameters of the target system.
  4. Click Send for transferring the MOSI and MISO messages on the SPI bus.
7. Configure the Device Settings for SPI-Slave using the SPI Control panel. [\(?\)](#)
  1. Configure the Bitrate.
  2. Click on the Slave tab.
  3. Configure the Polarity, Phase, Bit Order, and MISO Message based on the parameters of the target system.
  4. Click Set MISO message for setting a slave response.
  5. Click Enable to activate the adapter as an SPI slave.
8. Monitor the transactions in the Transaction Log.

## Notes

For additional information, take a look at the [Promira platform user manual](#), and [Control Center Serial user manual](#).