Getting Started with NI SPI API

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Introduction

The NI SPI API allows you to quickly get SPI communication up and running on your NI System on Module. This document will walk you through the process of setting up the SPI Engine and configuring it to work with your SPI module. It will also cover common troubleshooting techniques and ways you can further customize this API to work with other SPI configurations.

Requirements

Software

* LabVIEW Full Development System
* LabVIEW Real Time
* LabVIEW FPGA

Hardware

* NI System on Module
* NI 9651
* Target SPI Module

Using the API

The SPI API is easy to configure for any SPI module that you would like to communicate with. This walk through will use the MAX5216 DAC as an example, but will also explain how this same process could be done for other SPI chips. The example code discussed here is the s