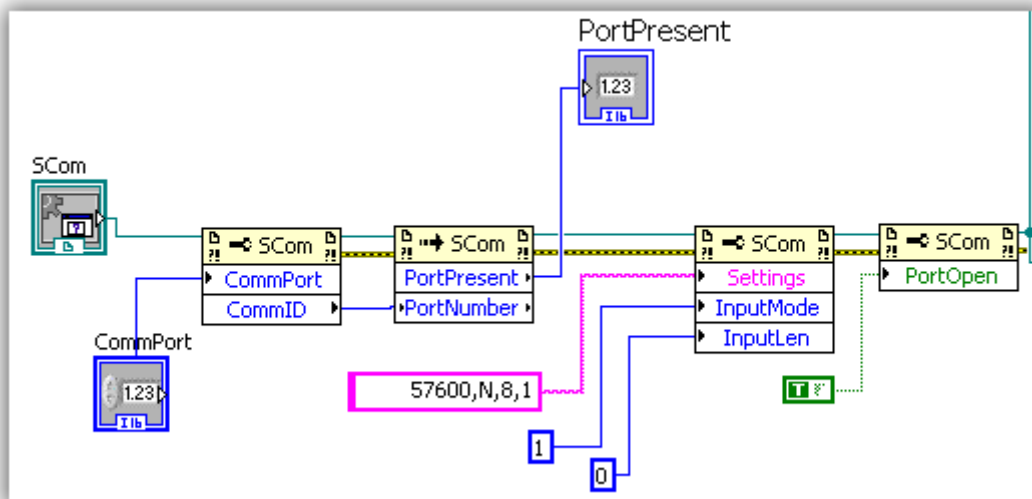# SuperCom

LabVIEW Samples

SuperCom LabVIEW samples

This document presents some of the LabVIEW samples available with SuperCom.

As with other languages and IDE, SuperCom offers two main API to use with LabVIEW: that is the DLL API and the ActiveX API.
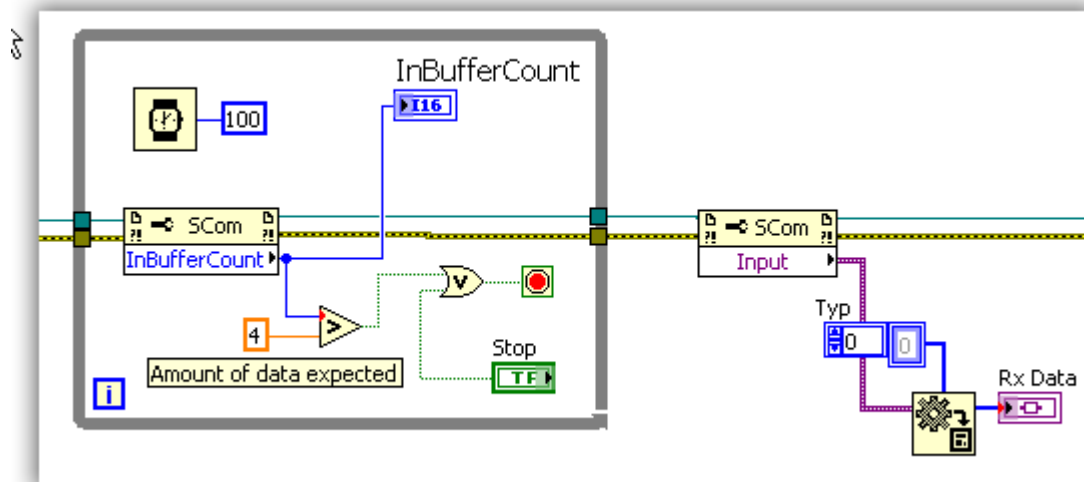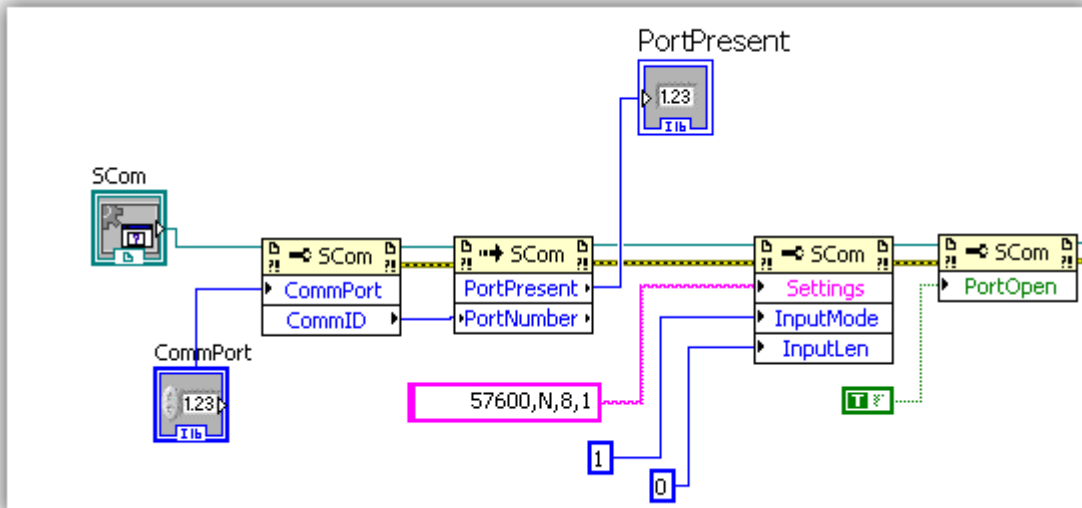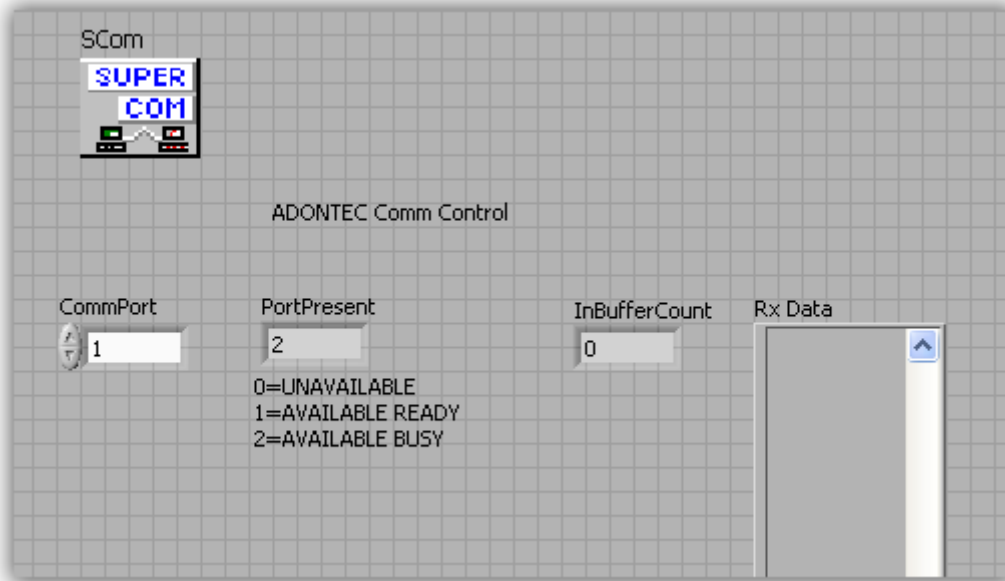
The samples presented here are using any of the SuperCom API or even combine both.

The samples show how to perform data transfer, file transfer and data communication to PLC using industrial protocol as 3964, RK512 and MODBUS.

Each SuperCom software package (license) contains it's specifics samples.

Using DLL API for serial communications

Calling functions in supercom.dll to transfer files and also data monitoring.

Using ActiveX for serial communications

Using ActiveX to transmit file

SuperCom ActiveX - LabVIEW sample

Sample transmitting file

SCom

ADONTEC Comm Control

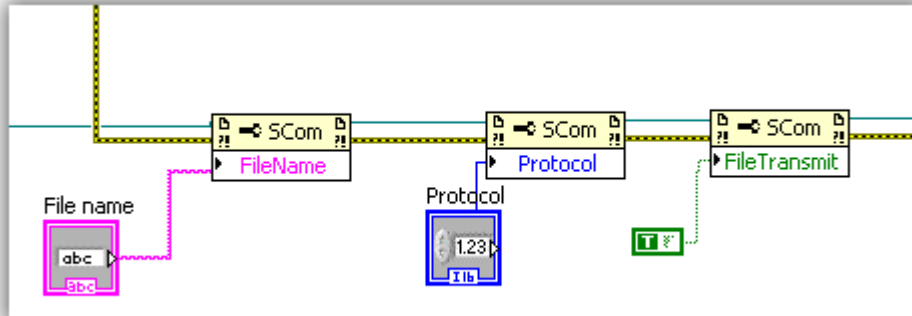CommPort
1

PortPresent
0

0=UNAVAILABLE
1=AVAILABLE READY
2=AVAILABLE BUSY

File name
c:\test.txt

Protocol
0

0)ASCII
1)XMODEM
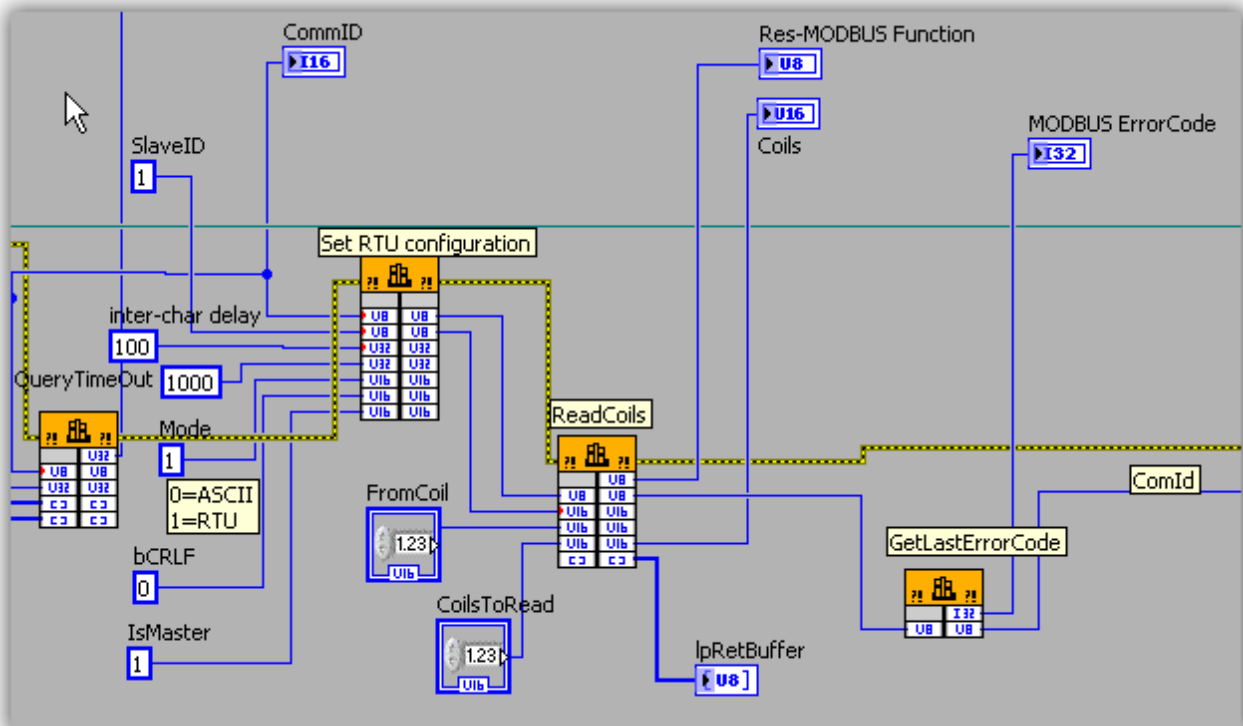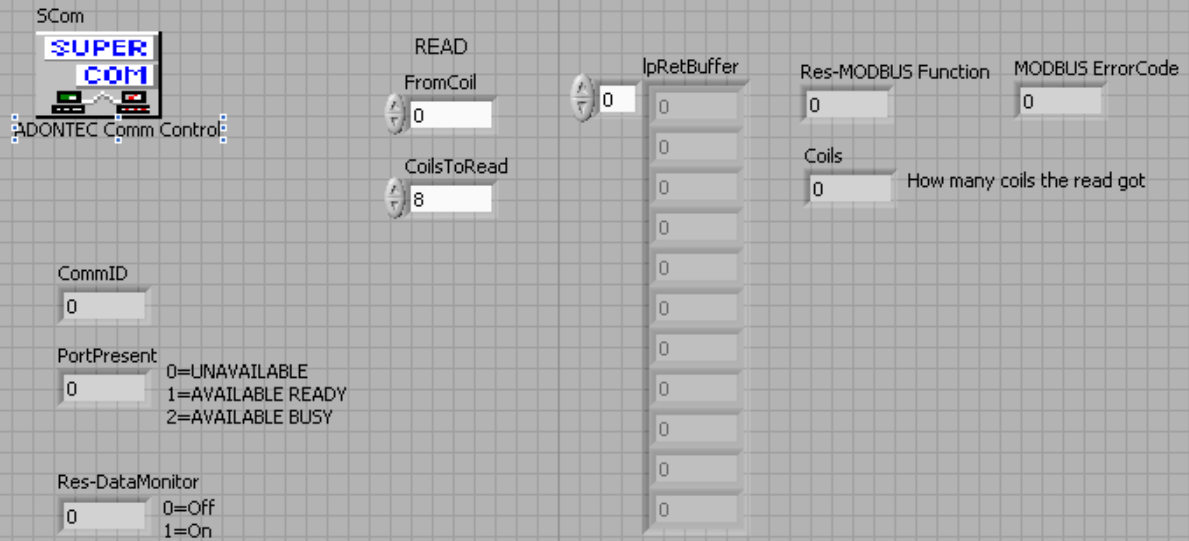2(XMODEM CRC
3)XMODEM1K
3)YMODEM
4) YMODEM BATCH
5) ZMODEM

When the program ends without closing the port e.g. PortOpen=FALSE, LabVIEW will see, the

Using ActiveX and MODBUS protocol

SuperCom ActiveX & DLL API LabVIEW sample, calling MODBUS

1. Call **RS_MBSetConfig, RS_MBReadCoils**

2. Parameter MODBUS 9600, N, 8, 1

3. Data monitoring

SCom
ADONTEC Comm Control

READ
FromCoil
0

CoilsToRead
8

lpRetBuffer
0

Res-MODBUS Function
0

MODBUS ErrorCode
0

Coils
0   How many coils the read got

CommID
0

PortPresent
0   0=UNAVAILABLE
1=AVAILABLE READY
2=AVAILABLE BUSY

Res-DataMonitor
0   0=Off
1=On

CommID
SlaveID
1

inter-char delay
100

QueryTimeOut   1000

Mode
1

0=ASCII
1=RTU

bCRLF
0

IsMaster
1

Set RTU configuration

FromCoil
1.23

CoilsToRead
1.23

ReadCoils

lpRetBuffer

Res-MODBUS Function

Coils

MODBUS ErrorCode

ComId

GetLastErrorCode

SuperCom ActiveX and 3964 / RK512 protocol

SuperCom ActiveX & DLL API LabVIEW sample, calling RK512 function