



Required National Instruments Hardware

Common Hardware (Should be included for all protocols/interfaces)

NI PXI-1042 8-Slot 3U Chassis with Universal AC Power Supply
NI PXI-8108 Core 2 Duo 2.53 GHz Controller, Win 7
Power cord, 120V, 10A, US

Hardware required for CAN protocol

NI PXI-8513/2, CAN Interface, Software-Selectable, 2 Port
NI CAN Device Simulator, US 120 VAC
NI CAN Single Termination Cable (1m)

Hardware required for RS232 protocol

NI PXI-8430/2, 2 Port, RS232 Serial Interface
RS232 Null Modem Cable (1m)

Hardware required for RS485/422 and Modbus protocols

PXI-8431/2, 2 Port, RS485/RS422 Serial Interface
RS485 Null Modem Cable (1m)

Hardware required for TCP and UDP protocols

NI PXI-8231, GIGABIT Ethernet for Windows and LabVIEW RT
Cable Assembly, CAT-5E Ethernet, Thin Profile, 2M

Hardware required for GPIB protocol

NI Instrument Simulator V2.0, Univ. US. 120VAC
X13 GPIB Cable, MicroD25 to Shielded cable/Standard connector, 2M

Hardware required for I2C interface

None

Hardware required for SPI interface

NI PXI-7952R NI FlexRIO FPGA Module (Virtex-5 LX50, 128MB RAM)
NI 6581 100MHz DIO (54 Channel) NI FlexRIO Adapter Module
NI SHC68-H1X38 Cable, 1.5m
NI USB-8451, I2C/SPI/SMBus Interface