

OPERATING INSTRUCTIONS AND SPECIFICATIONS

CompactRIO™ NI cRIO-9012/9014

Intelligent Real-Time Embedded Controller for CompactRIO

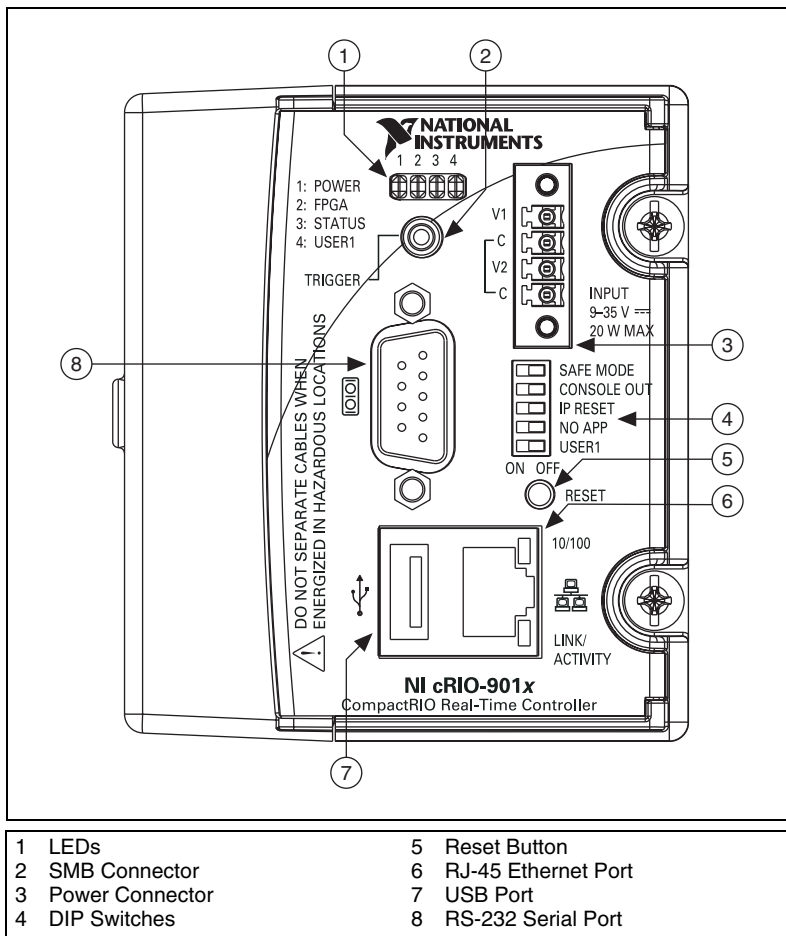


Figure 1. CompactRIO cRIO-9012/9014

Connecting Serial Devices to the Controller

The controller has an RS-232 serial port to which you can connect devices such as displays or input devices. Use the Serial VIs to read from and write to the serial port. For more information about the Serial VIs, refer to the *LabVIEW Help*.

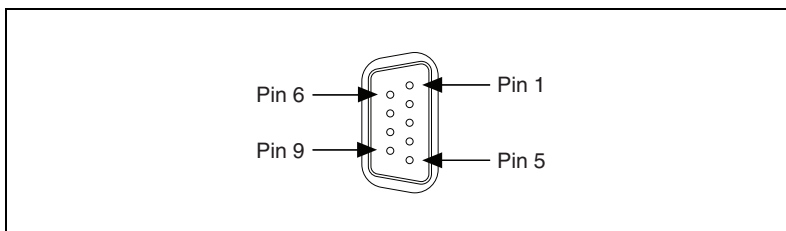


Figure 5. Controller Serial Port

Table 2. DB-9 Pin Descriptions

Pin	Signal
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Using the Internal Real-Time Clock

The system clock of the cRIO-9012/9014 is synchronized with the internal high-precision real-time clock at startup. This synchronization provides timestamp data to the controller. You can also use the internal real-time clock to correct drift of the system clock. Refer to the [Specifications](#) section for the accuracy specifications of the real-time clock.