

PXIe-7846



The National Instruments PXIe-7846 / PXIe-7846R R Series Reconfigurable I/O Module ensure complete flexibility of system timing and synchronization. You can customize these devices with the LabVIEW FPGA Module to develop applications requiring precise timing and control such as hardware-in-the-loop testing, custom protocol communication, sensor simulation, and high-speed control. This design offers specialized functionality such as multirate sampling and individual channel triggering, which are outside the capabilities of typical data acquisition hardware. The PXIe-7846 also includes peer-to-peer streaming for direct data transfer to other PXI Express modules. Dedicated A/D converter (ADC) per channel for independent timing and triggering.

Features

- » User-programmable FPGA for high-performance
- » onboard processing and direct control over I/O signals
- » 500 kS/s Max Sample Rate
- » (8) Analog Input Channels
- » (8) Analog Output Channels
- » (48) Bidirectional Digital Channels
- » Kintex-7 160T FPGA