

Introduction

This chapter describes the NI 6703/6704 devices, lists what you need to get started, describes optional software, equipment, and custom cables, and explains how to unpack your device.

For information about installing and configuring your device, refer to the *DAQ Quick Start Guide* at ni.com/manuals.

About the NI 6703/6704

The NI 6703/6704 devices are precise DC setpoint devices for PCI and PXI. The NI 6703 devices have 16 voltage output channels. The NI 6704 devices have 16 voltage output channels and 16 current output channels for a total of 32 analog output channels. The NI 6703/6704 devices have eight digital I/O lines.

You can use the NI 6703/6704 devices in a wide variety of DC setpoint and digital I/O applications. With the NI 6703/6704 devices, your PC system can serve as a digital I/O system controller for laboratory testing, production testing, and industrial process monitoring and control. These devices can do the following:

- Generate experimental stimuli
- Generate analog functions
- Connect to a variety of signal types, including:
 - Electromechanical relays
 - LEDs
 - Optically isolated, solid-state relays and I/O module mounting racks
 - Voltage and current excitation for precision transducers
 - Current excitation for precision transducers (NI 6704 only)

Detailed specifications for the NI 6703/6704 devices are in Appendix A, *Specifications*.