

# Digital I/O Accessories and Cables



Figure 1. SCXI High-Performance Signal Conditioning



Figure 2. Digital Signal Conditioning Accessories



Figure 3. CA-1000 Configurable Signal Connectivity Solution



Figure 4. SCB-100 Shielded Connector Blocks

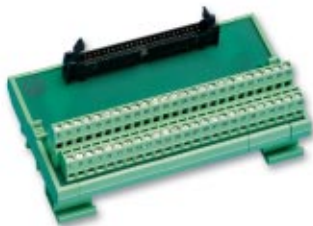


Figure 5. CB-50 I/O Connector Block

## Accessories for Digital I/O

### SCXI – High-Performance Modular Signal Conditioning (See Figure 1)

SCXI is a modular high-performance signal conditioning system that serves as a front end to your DIO device. The SCXI modules for DIO offer isolation, extended voltage ranges (up to 250 Vrms), increased current switching capabilities, and expanded channel counts (up to 3,072 I/O lines). In addition to SCXI modules for DIO, your SCXI signal conditioning system can include modules for analog output and general-purpose switching when cabled to a DIO device. With SCXI, you can create integrated, flexible high-channel-count measurement systems with signal conditioning components tailored to your needs. See page 270 for details on SCXI signal conditioning.

### SCC – Portable Modular Signal Conditioning

National Instruments offers SCC modules for portable low-channel-count digital signal conditioning. These modules mount in a compact, versatile carrier. See page 251 for details on SCC signal conditioning.

### Digital Signal Conditioning Accessories (See Figure 2)

National Instruments also offers several options for low-channel-count digital signal conditioning. These accessories provide a cost-effective solution for digital I/O systems requiring isolated I/O or relays for controlling external devices. Most of these products cable directly to your National Instruments digital I/O device. See page 349 for details on digital signal conditioning accessories.

### CA-1000 (See Figure 3)

Configurable signal connectivity solution for connecting DIO devices to different types of standard I/O connectors and for incorporating switches and LED indicators. You can place this connector box under a laptop PC, on a benchtop, or in a 19 in. rack. CA-1000 .....See page 351

Dimensions – 30.7 by 25.4 by 4.3 cm (12.1 by 10 by 1.7 in.)

### SCB-100 (See Figure 4)

Shielded I/O connector block for easy connection of I/O signals to 100-pin digital I/O devices. The screw terminals are housed in a metal enclosure for protection from noise corruption. Combined with shielded cables, the SCB-100 provides rugged, very low noise signal termination. It also includes general breadboard areas – three on the SCB-100.

SCB-100.....776990-01

Dimensions – 19.5 by 15.2 by 4.5 cm (7.7 by 6.0 by 1.8 in.)

### CB-50 I/O Connector Block with DIN-Rail Mounting (See Figure 5)

Termination accessory with 50 screw terminals for easy connection of field I/O signals to NI 650x and NI 6527 devices. Includes one 50-pin header for direct connection to 50-pin cables. The CB-50 includes a protective plastic base and hardware for mounting the accessory on either a standard DIN rail or flush on a wall or panel.

CB-50.....776164-90

Dimensions – 13.5 by 7.3 cm (5.3 by 2.9 in.)