

Multifunction DAQ Accessories



Figure 1. SCC Portable, Modular Signal Conditioning



Figure 2. SCXI High-Performance Signal Conditioning



Figure 3. BNC-2100 Series Connector Blocks



Figure 4. SC-2075 Breadboard Connector Block

SCC – Portable Modular Signal Conditioning for Low-Channel-Count Applications (See Figure 1)

SCC is a portable modular signal conditioning system consisting of modules that plug into a low-profile SC-2345 shielded carrier. SCC modules give you single or dual-channel signal conditioning for up to 16 analog input channels and eight digital I/O lines of your E Series or Basic multifunction DAQ device. The SCC Series offers signal conditioning for a variety of inputs, including thermocouples, RTDs, strain gauges, IEPE-compatible accelerometers, accelerators, analog inputs requiring isolation, high voltage (up to 100 V), current (0 to 20 mA), and optically isolated digital I/O. Lowpass filtering and breadboard modules are also available.

See page 251 for details on SCC Signal Conditioning.

SCXI – High-Performance Modular Signal Conditioning (See Figure 2)

SCXI is a high-performance modular signal conditioning platform that you use as a front end to your E Series DAQ device. With the SCXI multiplexing architecture, you can expand your analog inputs to 3,072 channels. Additionally, SCXI offers a variety of modules for connecting to thermocouples, RTDs, strain gauge transducers, LVDT position sensors, IEPE-compatible accelerometers/microphones, thermistors, millivolt inputs, voltage inputs up to 1000 V, current inputs (0 to 20 mA), frequency inputs or dynamic signals.

See page 270 for details on SCXI Signal Conditioning.

Connector Blocks

BNC-2100 Series Connector Blocks (See Figure 3)

The BNC-2100 Series are shielded connector blocks with signal-labeled BNC connectors for easy connectivity of your analog input, analog output, digital I/O and counter/timer signals to your multifunction DAQ device, including analog output devices. The BNC-2110 and BNC-2120 work with all E Series and Basic multifunction DAQ devices. The BNC-2120 also provides a function generator, quadrature encoder, temperature reference, thermocouple connector, and LED so that you can test the functionality of your hardware. The BNC-2115 has 24 BNC inputs for connecting to the extended I/O channels of our 100-pin E Series DAQ devices.

BNC-2110	777643-01
Dimensions – 20.3 by 11.2 by 5.5 cm (8.0 by 4.4 by 2.2 in.)	
BNC-2115	777807-01
Dimensions – 20.3 by 11.2 by 5.5 cm (8.0 by 4.4 by 2.2 in.)	
BNC-2120	777960-01
Dimensions – 26.7 by 11.2 by 6.0 cm (10.5 by 4.4 by 2.4 in.)	

SC-2075 Breadboard Connector Block (See Figure 4)

The SC-2075 provides breadboard area for prototyping and BNC and spring terminal connectivity for 68-pin E Series Basic multifunction DAQ devices. The built-in ± 15 V or adjustable 0 to 5 V power supply and LEDs for digital lines make the SC-2075 a cost-effective device, ideal for academic laboratories.

SC-2075	778147-90
Dimensions – 26.7 by 20.7 by 4.4 cm (10.5 by 8.2 by 1.7 in.)	