DBK214™

16-Connector BNC Interface Module

NEW

Compatibility: ✔ LogBook ✔ DaqBook ✔ DaqLab ✔ DaqScan ✔ DaqBoard/2000 Series

Features

- **Provides BNC access to 16 inputs or outputs, user configurable**
- **Also provides screw-terminal connectors for all signals**

The DBK214™ BNC module provides 16 BNC connectors for accessing analog I/O, digital I/O, or counter/timer signals. In addition, screw-terminal connections for all signals are accessed by removing the DBK214's top cover.

Eight of the BNC connectors are predefined as analog inputs and are jumper selectable as single ended or differential. Another eight BNC connectors can be configured by the user on a per channel basis as an analog input or output, digital I/O, or counter/timer channels. Signals attached to screw-terminal connections are routed through a slot in the front of the DBK214. The DBK214 is housed in a shielded metal enclosure which can be mounted to other DBK signal conditioning and expansion modules.

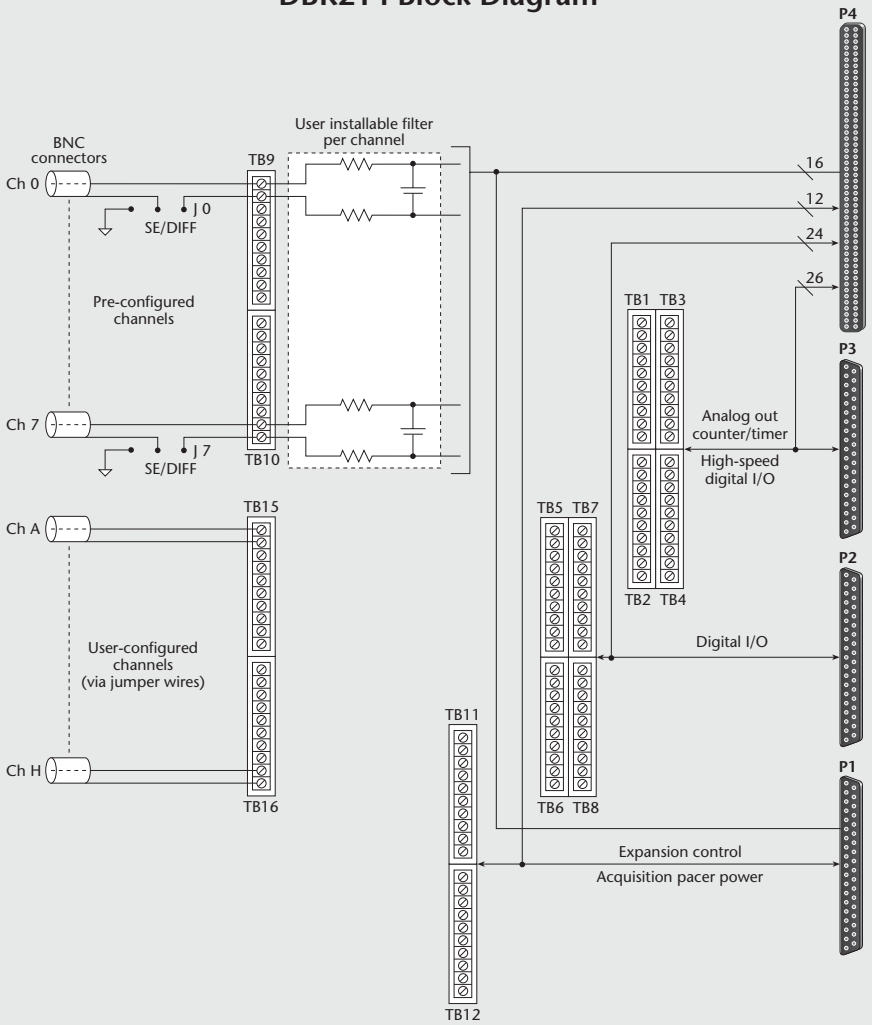
When used with any DaqBoard/2000™ series PCI board*, a single CA-195 100-pin cable is used to connect a DaqBoard to the P4 port on the DBK214. Male DB37 connectors on the DBK214 provide P1, P2, and P3 ports for another way to access signals or to connect DBK signal conditioning and expansion cards.

The DBK214 can also be used with any DaqBook, DaqScan, DaqLab or LogBook series product. The DB37 P1, P2, and P3 connectors on the DBK214 connect these products to the DBK214. Multiple CA-37-1 or CA-255-4T cables are used to connect each P1, P2, and P3 port on the DBK214 to the P1, P2 and P3 ports on the main A/D unit. A separate cable is needed to connect each port.

* For DaqBoard/500 series and DaqBoard/1000 series boards, use DBK215

The DBK214 provides 16 BNC inputs or outputs, and internal screw-terminal connections

DBK214 Block Diagram



IOtech, Inc. • 25971 Cannon Road • Cleveland, Ohio 44146 • 440.439.4091 • Fax: 440.439.4093 • www.iotech.com

DBK214™

Specifications & Ordering Information

Specifications

Operating Environment:
Temperature: -30˚C to 70˚C
Relative Humidity: 95% RH, non-condensing
Vibration: MIL STD 810E Category 1 and 10
Connectors:
BNC: 16 BNC connectors
P4: 100-pin connector provides for connection to DaqBoard/2000 series P4 connector via a CA-195 cable
P1: One P1 (DB37) connector provides for analog expansion via a CA-37-x or CA-255-X cable
P2: One P2 (DB37) connector provides for digital expansion via a CA-37-x or CA-255-X cable
P3: One P3 (DB37) connector provides for counter, digital I/O and analog output connection via a CA-37-1 or CA-255-X cable
Screw Terminals: 12 banks of 10 connector blocks. Wire size 12 to 28 AWG.
Dimensions: 285 mm W x 220 mm D x 45 mm H (11" x 8.5" x 2.7")
Weight: 1.36 kg (3 lbs)

Ordering Information

Description	Part No.
16-connector BNC interface module with internal screw-terminal connections	DBK214

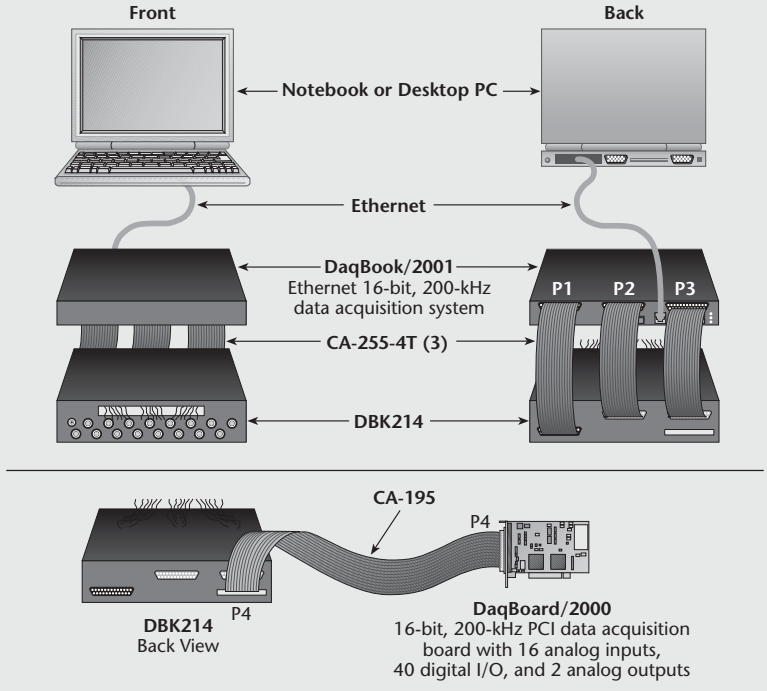
Accessories

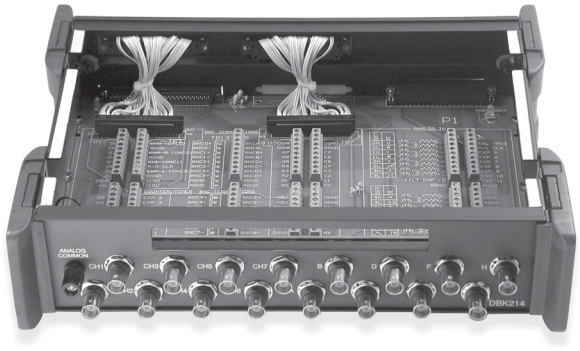
Rack mount kit	RackDBK4

Cables

100-conductor expansion cable, mates with P4 on the DaqBoard/2000 series	
3 ft. expansion cable	CA-195
6 ft. expansion cable	CA-195-6
Same as CA-195 with CE compliance; 3 ft.	CA-209
Shielded T cable for use with LogBook, DaqBook, DaqLab, DaqScan, and DaqBoard; 2 in.	CA-255-2T
Shielded T cable for use with LogBook, DaqBook, DaqLab, DaqScan, and DaqBoard; 4 in.	CA-255-4T
Ribbon cable for use with LogBook, DaqBook, DaqLab, DaqScan, and DaqBoard	CA-37-x

DBK214 System Examples





DBK214 shown with cover removed, providing access to all screw terminals

Rear view of DBK214 showing all connections to the A/D host