

DBK207[™] & DBK207/CJC[™]



16-Channel Isolated Analog Signal Conditioning

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

Features

- Accepts up to 16 5B-compatible isolated analog input modules
- 500 VDC channel-to-channel and channel-to-system isolation
- Modules can be mixed in any combination to measure temperature, strain, volts, current, and frequency
- Per-channel screw terminals (14-22 AWG) for easy signal connection, cold-junction sensors for thermocouple applications (DBK207/CJC™), and socket for current resistors
- Up to 16 DBK207[™] and/or DBK207/CJC boards can be daisy-chained supporting expansion to 256 isolated analog inputs
- Easily configured, without programming, with DaqView software
- Optionally rack and DIN-rail mountable
- Requires +5 VDC power supply

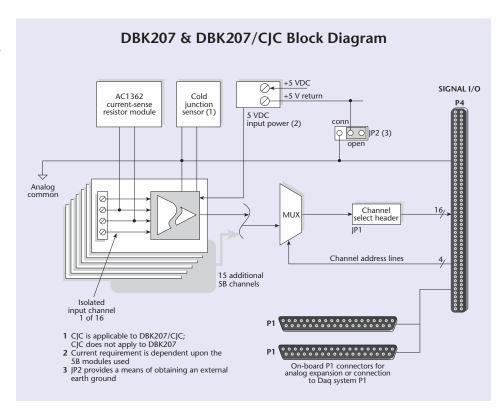
The DBK207™ and DBK207/CJC™ signal conditioning and expansion boards can be configured, on a per channel basis, with up to 16 isolated 5B analog input modules. Both boards feature screw terminals per channel for the convenient connection of field signals as well as sockets for current conversion resistors*. The DBK207/CJC also includes per channel cold-junction compensation. This allows 5B thermocouple modules to output linearized and compensated values eliminating the need for any components apart from a user-supplied thermocouple.

Each user-configurable 5B signal conditioning module offers 500V isolation from the system and from other channels. A wide variety of analog input modules are available for measuring temperature (thermocouple and RTD), strain, volts, current, and frequency.

Up to 16 DBK207 and/or DBK207/CJC boards can be daisy chained (via multiple CA-37-x cables) providing expansion up to 256 analog input channels. For applications with both analog and digital I/O channel expansion requirements, the



The DBK207 and DBK207/CJC accept up to 16 isolated analog input modules of any type



DBK208, and DBK210 expansion boards are available. All DBK signal conditioning and expansion boards are scanned at $5 \,\mu$ s/channel.

The DBK207 and DBK207/CJC ship with panel-mount hardware but they can also be either DIN-rail or rack-mounted with optional mounting kits.

The DBK209 and DBK206 adapter boards are used to convert the 100-pin (P4) connector from the DaqBoard/2000 series boards to three expansion ports (P1, P2, and P3).



Rack3 rack-mount kit for the DBK207 and DBK207/CJC

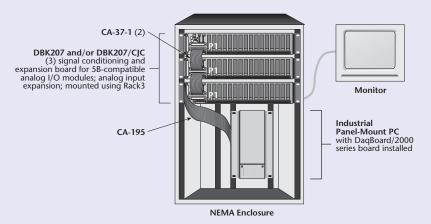
Supplied with 5B current I/O modules which are sold separately



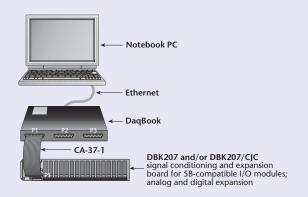
DBK207[™] & DBK207/CJC[™]

Specifications & Ordering Information

DBK207 & DBK207/CJC Expansion Examples



Three DBK207 isolated analog signal conditioning and expansion boards (16 max) using Rack3 mounting option



The DaqBook/2000 with one DBK207 and/or DBK207/CJC isolated analog signal conditioning and expansion board (16 max)

Specifications

Module Capacity: 16, input only, 5B modules

Cable (optional): CA-37-x and CA-195 DC Input Fuse: 3A, reset type

Power Requirement: 5 VDC, regulated Operating Environment:

Operating Environment: Temperature: 0°C to 70°C

Relative Humidity: 95% RH, non-condensing Connectors:

P4:100-pin connector provides for connection to DaqBoard/2000 series P4 connector via a CA-195 cable

P1:Two P1 (DB37) connectors provide connection to Daq system P1, and analog expansion via single CA-37-x cable or multiple CA-37-1 cables Screw Terminals: 16 sets of 4-connector blocks

Isolation (DC or AC Peak):

Signal Inputs to Daq Device: 500V Input Channel-to-Channel: 500V

CJC: Cold-junction compensation, applicable to DBK207/CJC board only

Ordering Information

Description Part No.

Termination and (parallel P1) expansion board with fixed screw terminals and sockets for up to 16 multiplexed 5B-compatible isolated analog input modules; provides direct connection for analog DBK signal conditioning and expansion options

Same as DBK207 but with on-board, cold-junction compensation for thermocouple based

measurements DBK207/CJC

Termination and expansion board with removable screw terminals for access to all DaqBoard/2000 series I/O with direct connection for DBK signal conditioning and expansion options

DBK206

Expansion board for direct connection to DBK signal conditioning and expansion options

DBK209

DBK207

Accessories

Description Part No. Rack-mount kit for DBK206, DBK207, DBK207/CJC, DBK208, DBK209, and DBK210 signal termination and expansion boards Rack3 DIN-rail adapter kit for DBK206, DBK207, DBK207/CJC, DBK208, and DBK210 signal termination and expansion boards DIN1 DIN-rail adapter kit for DBK209 signal DIN₂ termination and expansion board Optional hardcopy manual set (3); includes programmer's manual, DaqBoard/2000 & DagBoard/2000c series user's manual. and DBK option cards & modules

1033-0900

CA-209

Cables

user's manual

Expansion-card cable for connecting
DBK series expansion options;
specify number of option cards (x)
to be connected
CA-37-x
100-conductor expansion cable,
mates with the DaqBoard/2000 series
boards and the DBK200, DBK201,
DBK202, DBK203, DBK206, DBK207,
DBK207/CJC, DBK208, DBK209,
and DBK210;
3 ft expansion cable
CA-195-6
6 ft expansion cable
CA-195-6

For complete information on accessories and cables, visit www.iotech.com/acc

Related Products

Same as CA-195 with CE compliance; 3 ft.

LogBook	p. 75
DaqBook	p. 89
DaqLab	p. 103
DaqScan	p. 108
DBK206	p. 177
DBK209	p. 199
5B Modules	p. 184
DagBoard/2000 Series	p. 192

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