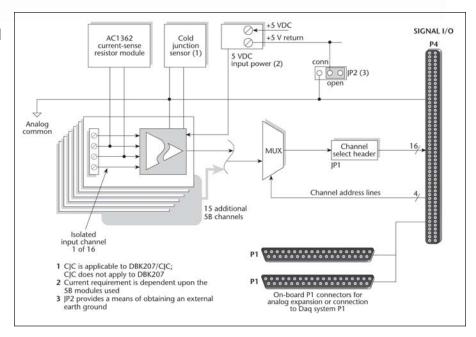
OMB-DBK207 and OMB-DBK207/CJC

16-Channel Isolated Analog Signal Conditioning Card For OMB-LOGBOOK-300, OMB-DAQBOARD-2000 Series and OMB-DAQSCAN-2000 Series



- Accepts Up to 16 OM5 (5B Compatible) Isolated Analog Input Modules
- 500 Vdc Channel-to-Channel and Channelto-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, ColdJunction Sensors
 for Thermocouple
 Applications
 (OMB-DBK207/CJC),
 and Socket for Current
 Resistors
- Up to 16 OMB-DBK207 and/or OMB-DBK207/ CJC Boards Can be Daisy-Chained, Supporting Expansion to 256 Isolated Analog Inputs
- ✓ Requires 5 Vdc Power Supply
- Optional Rack Mount Kit

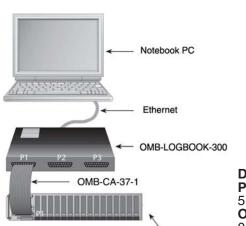


Easily Configured with DaqView Software (No Programming Required)

The OMB-DBK207 and OMB-DBK207/CJC signal conditioning and expansion boards can be configured, on a per-channel basis, with up to 16 isolated OM5 (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 (supplied with OM5 (5B) current I/O modules, sold separately). The OMB-DBK207/CJC also includes per-channel cold-junction compensation. This allows OM5 (5B) thermocouple modules to output linearized and compensated values eliminating the need for any components apart from a user-supplied thermocouple.



OMB-DBK207, \$249, shown smaller than actual size.



OMB-DBK207 and/or OMB-DBK207/CJC signal conditioning and expansion board for 5B-compatible I/O modules; analog and digital expansion

Each user-configurable OM5 (5B) signal conditioning module offers 500 V 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.

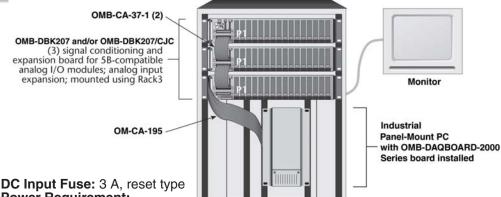
Up to 16 OMB-DBK207 and/or OMB-DBK207/CJC boards can be daisy-chained (via multiple OMB-CA-37-x cables) providing expansion for up to 256 analog input channels. For applications with both analog and digital I/O channel expansion requirements, the OMB-DBK208 and OMB-DBK210 expansion boards are available. All OMB-DBK signal conditioning and expansion boards are scanned at 5 µs/channel.

The OMB-DBK207 and OMB-DBK207/CJC ship with panel-mount hardware but they can also be rack-mounted with the optional rack mounting kit. The OMB-DBK209 and OMB-DBK206 adapter boards are used to convert the 100-pin (P4) connector from the OMB-DAQBOARD-2000 series boards to three expansion ports P1, P2, and P3).

Specifications

Module Capacity: 16, input only, OM5 (5B) compatible modules Cable: OMB-CA-37-x

and OMB-CA-195



Power Requirement: 5 Vdc, regulated

Operating Environment: 0 to 70°C (32 to 158°F) **Relative Humidity:** 95% RH non-condensing

Connectors:

P4: 100-pin connector for connection to OMB-DAQBOARD-2000 Series P4 connector via an OMB-CA-195 cable P1: 2 P1 (DB37) connectors provide connection to Dag system P1, and analog expansion via single OMB-CA-37-x cable or

multiple OMB-CA-37-1 cables

Screw Terminals: 16 sets of 4-connector blocks

ISOLATION (DC OR AC PEAK) Signal Inputs to Dag Device: 500 V

NEMA Enclosure

Input Channel-to-Channel:

500 V

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

AVAILABLE FOR FAST DELIVERY!

AVAILABLE I OII I AO I BELIVEIII :		
To Order (Specify Model Number)		
Model No.	Price	Description
OMB-DBK207	\$249	16-channel isolated analog signal conditioning card
OMB-DBK207/CJC	399	16-channel isolated analog signal conditioning card with on-board CJC (cold-junction compensation) for thermocouple measurements
OMB-RACK3	41	Rack mount kit for OMB-DBK207 and OMB-DBK207/CJC
OM5-LTC-J1-C	205	Type J thermocouple input module, 0 to 760°C input range, 0 to 5 Vdc output
OM5-LTC-K1-C	205	Type K thermocouple input module, 0 to 1000°C input range, 0 to 5 Vdc output
OM5-IP-200-C	150	100 Ohm Pt RTD input module, 0 to 200°C input range, 0 to 5 Vdc output
OM5-IMV-100B-C	150	Isolated millivolt input module, ±100 mV input range, 0 to 5 Vdc output
OM5-IMV-10B-C	150	Isolated voltage input module, ±10 Vdc input range, 0 to 5 Vdc output
OMB-CA-195	79	100-conductor expansion cable for OMB-DAQBOARD-2000, 0.9 m (3') long
OMB-CA-37-1	51	37-pin single option expansion cable for OMB-DAQSCAN-2000 and OMB-LOGBOOK-300, 18 cm (7") long

See omega.com for details on all of the OM5 Series modules available for use with the OMB-DBK207 and OMB-DBK207/CJC cards.

Ordering Example: OMB-DBK207/CJC, 16-channel isolated analog signal conditioning card with on-board CJC (cold junction compensation) for thermocouple measurements and OMEGACARE 1-year extended warranty for OMB-DBK-207/CJC (adds 1 year to standard 1-year warranty), \$399 + 39 = \$438.

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Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ehernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters