

16-Channel Isolated Analog Signal Conditioning Card

For OMB-LOGBOOK-300, OMB-DAQBOARD-2000 Series and OMB-DAQSCAN-2000 Series

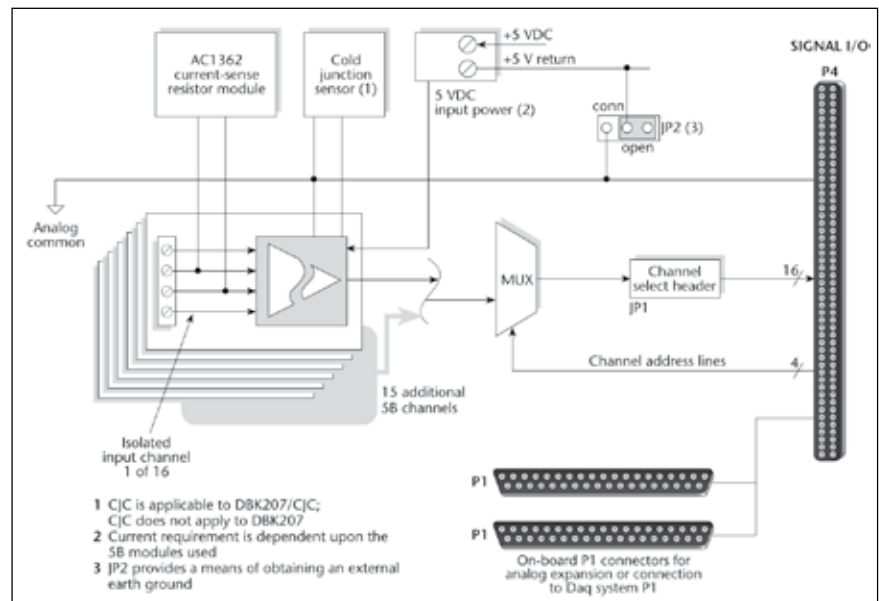


OMB-DBK207 with rack mount kit, shown smaller than actual size.

OMB-DBK207



- ✓ Accepts Up to 16 OM5 (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, and Socket for Current Resistors
- ✓ Up to 16 OMB-DBK207 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 signal conditioning and expansion board 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).

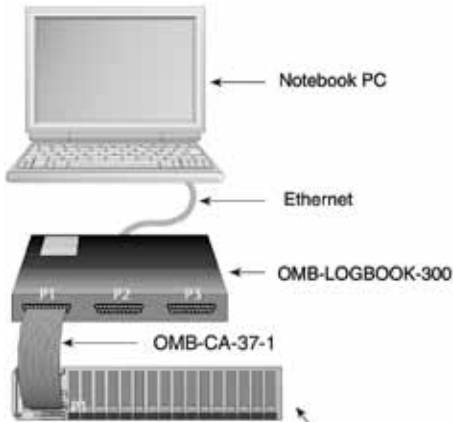
Each user-configurable OM5 (5B) signal conditioning module offers 500 V isolation from the system and from other channels. A wide

variety of analog input modules are available for measuring temperature (thermocouple and RTD), strain, volts, current, and frequency.

Up to 16 OMB-DBK207 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 μ s/channel.

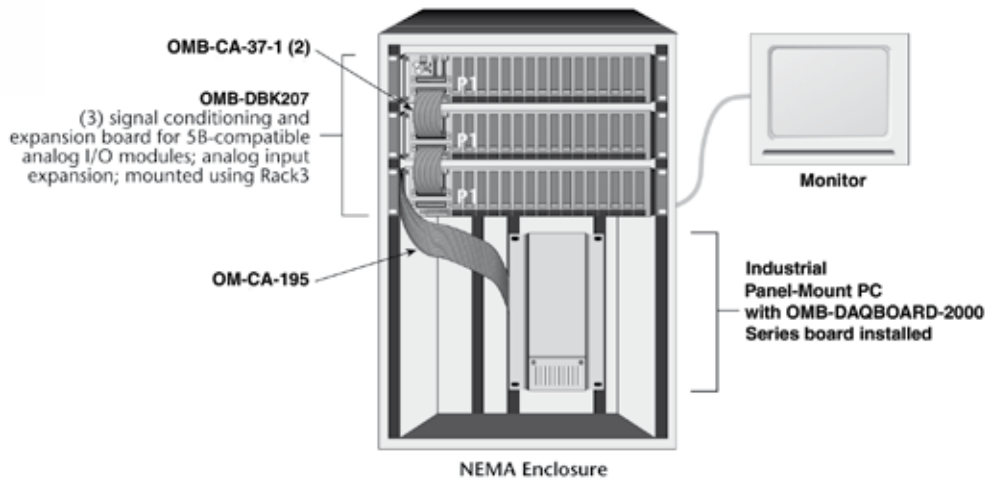


OMB-DBK207, shown smaller than actual size.



OMB-DBK207 signal conditioning and expansion board for SB-compatible I/O modules; analog and digital expansion.

The OMB-DBK207 ships with panel-mount hardware but 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
DC Input Fuse: 3 A, reset type
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 Daq 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-conductor blocks
ISOLATION (DC OR AC PEAK)
Signal Inputs to Daq Device: 500V
Input Channel-to-Channel: 500V

To Order

Model No.	Description
OMB-DBK207	16-channel isolated analog signal conditioning card
OMB-RACK3	Rack mount kit for OMB-DBK207
OM5-LTC-J1-C	Type J thermocouple input module, 0 to 760°C input range, 0 to 5 Vdc output
OM5-LTC-K1-C	Type K thermocouple input module, 0 to 1000°C input range, 0 to 5 Vdc output
OM5-IP-200-C	100 Ohm Pt RTD input module, 0 to 200°C input range, 0 to 5 Vdc output
OM5-IMV-100B-C	Isolated millivolt input module, ±100 mV input range, 0 to 5 Vdc output
OM5-IMV-10B-C	Isolated voltage input module, ±10 Vdc input range, 0 to 5 Vdc output
OMB-CA-195	100-conductor expansion cable for OMB-DAQBOARD-2000, 0.9 m (3') long
OMB-CA-37-1	37-pin single option expansion cable for OMB-DAQSCAN-2000 and OMB-LOGBOOK-300, 18 cm (7") long

Visit us online for details on all of the OM5 Series modules available for use with the OMB-DBK207 card.

Ordering Example: OMB-DBK207, 16-channel isolated analog signal conditioning card and OCW-1 OMEGACARE 1-year extended warranty for OMB-DBK-207 (adds 1 year to standard 1-year warranty).