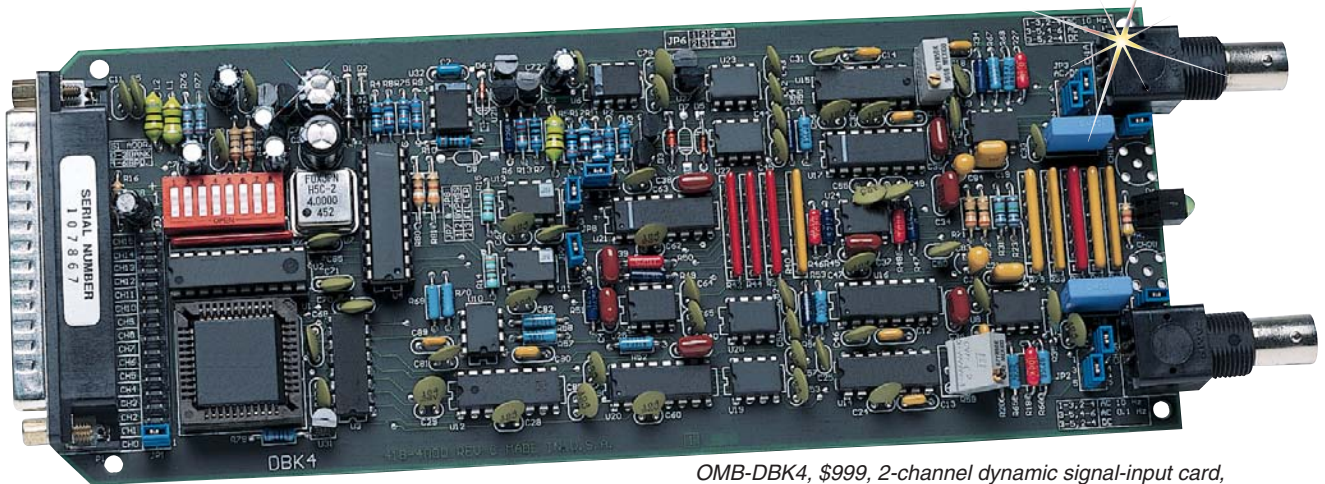


OMB-DBK4

2-Channel Dynamic Signal-Input Card for OMB-DAQBOARD-2000 Series and OMB-LOGBOOK

Model OMB-DBK4

\$999



OMB-DBK4, \$999, 2-channel dynamic signal-input card, shown smaller than actual size

- ✔ Offers a Per-Channel Programmable Gain Amplifier for ± 50 mV, ± 500 mV, or ± 5 V FS Input
- ✔ Includes a Built-In Current Source for ICP Transducer Biasing
- ✔ Offers Per-Channel Anti-Aliasing Filters
- ✔ Provides Per-Channel Simultaneous Sample and Hold
- ✔ Accommodates Either AC or DC Coupled Signals
- ✔ Both Dynamic Analog Inputs Sampled Within 50 ns of Each Other

The 2-channel OMB-DBK4 dynamic signal-input card enables OMB-LOGBOOK and OMB-DAQBOARD-2000 Series data acquisition systems to accommodate inputs from piezoelectric transducers, such as accelerometers or microphones, as well as from various other dynamic signal sources. Each OMB-DBK4 card is equipped with two BNC connectors and footprints for two user-installed Microdot connectors, permitting it to easily accommodate most transducer connections.

Up to 128 cards can be attached to one OMB-LOGBOOK or OMB-DAQBOARD-2000 Series, for a total of 256 dynamic signal inputs.

Architecture

The OMB-DBK4 provides per-channel, constant current source outputs, programmable gain amplifiers, programmable anti-aliasing filters, and sample and hold amplifiers.

Specifications

Channels: 2

Connectors: DB37 male, 1 BNC per channel, and footprints for one user-provided Microdot connector per channel

Current Source:

Output Impedance: >1.4 M Ω

Compliance: 27 V

Current Levels: 2 and 4 mA (jumper selectable)

Input Impedance: 150 K Ω

Input Ranges:

± 50 mV, ± 500 mV, and ± 5 V FS; additional full scale ranges

are available when combined with the OMB-LOGBOOK's or OMB-DAQBOARD-2000 Series on-board programmable A/D ranges

Coupling: AC and DC

AC High-Pass Filters:

Per-channel, 1-pole HPF with 10 Hz or 0.1 Hz cutoff, selectable via jumper

Input Signal/Noise:

>96 dB (BW=100 kHz)

Amplitude Accuracy:

± 0.5 dB passband center

Low-Pass Filter:

Software selectable, 12-pole Butterworth filter, with cutoff frequencies of 18 kHz, 9 kHz, 4.5 kHz, 2.25 kHz, 1.125 kHz, 562.5 Hz, 281.2 Hz, and 141.6 Hz; each channel can be configured for a different cutoff frequency

Power Consumption: 2750 mW

(When multiple OMB-DBK4 cards are used, an OMB-DBK32A auxiliary power supply may be required.)

Cables:

Use OMB-CA-37-x cable with OMB-LOGBOOK and OMB-DAQBOARD-2000 Series

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model Number	Price	Description
OMB-DBK4	\$999	2-Channel Dynamic Signal-Input Card

Ordering Example: OMB-DBK4 2-channel dynamic signal-input card, \$999.



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