

16-Channel Differential Voltage Input Module



Features

- 16 differential input channels via BNC connectors
- Unity gain combines with A/D gains to provide full-scale inputs from ±156 mV to ±10V

The DBK85 provides 16 channels of differential voltage input. The DBK85 has a single, unity-gain input stage on all channels. When coupled with the A/D's on-board x1 through x64 programmable input gains, the combination provides full-scale input ranges from ± 10 V down to ± 156 mV.

The DBK85's ultra-low noise, high-speed design allows users to expand their input channels up to 256 channels without sacrificing measurement integrity.

Specifications

Dimensions: 285 mm W x 220 mm D x 45 mm H

(11" x 8.5" x 1.75") **Weight:** 1.13 kg (2.5 lbs)

Operating Temperature: -30 to +70 °C

Connector: DBK37 male, mates with P1*; front-panel BNC connectors for signal connection

Gain Ranges: x1

Inputs: 16 differential voltage inputs
Maximum Voltage Range: ±10V
Input Impedance: 20M Ohm
Accuracy: ±[0.025% +150 µV] (typ),

 $\pm [0.1\% +250 \,\mu\text{V}] \,(\text{max})$



The DBK85 adds the convenience of BNC inputs plus 16 additional differential channels to any Daq system

Temperature Coefficient: 10 ppm for every degree outside the range of 0 to 50 $^{\circ}$ C

Noise: 60 µVrms (typ)

Maximum Input Voltage (without damage): ±35V

3 dB Bandwidth: 2.6 MHz

CMRR: 80 dB typ Power Consumption: 755 mW

Ordering Information

Description Part No.
16-channel differential voltage input module DBK85

Accessories & Cables

Rack mount kit RackDBK3
Molded T expansion cable for use with

DaqBook/2020 and WBK40/41 CA-255-4T

Description
Molded T expansion cable; 2 in.
Molded T expansion cable; 4 in.
Ribbon cable, where x is the number

Part No. CA-255-2T CA-255-4T

CA-37-x

Note: The CA-37-x ribbon cable can also be used in lieu of the CA-255-x molded T cables.

Product Compatibility

of DBK devices attached

- ✓ DaqBook
- ✓ DaqLab
- **✓** DaqScan
- ✓ DaqBoard/2000 Series
- * Attachment to the DaqBoard/2000 Series requires a DBK200, DBK202, DBK203A, DBK209, DBK213, or DBK214

