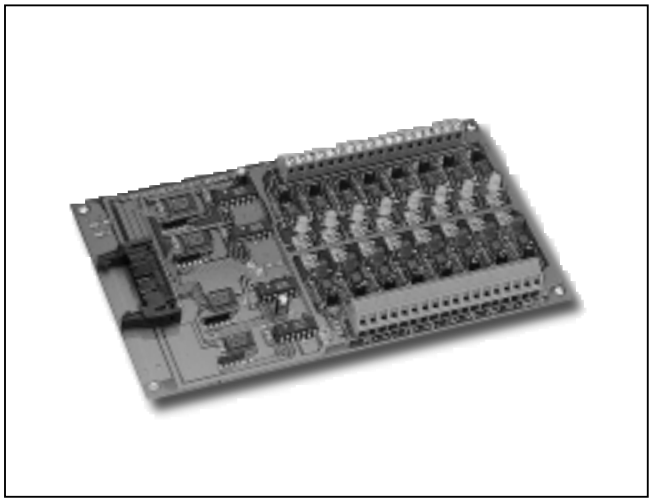
DB-16P

16-Channel Opto-Isolated Digital Input Board



Functional Description

The DB-16P is a 16 channel isolated digital input daughterboard forA-82X board. The optically isolated inputs of the DB-16P consists of a bi-directional OPTO-coupler with a resistor for current sensing. You can use the DB-16P to sense DC signal from TTL levels up to 24V You can also use DB-16P to sense a wide range of AC signals. You can use the board to isolated the computer from large common-mode voltages, ground loops and voltage spikes that often occur in industrial environments.

Features

- 16 optically isolated digital input channels
- Connects directly to A-82X board, ISO-730, DIO-64, PCI-TMC12, PCI-180X, A-626, A-628, ISO-DA8/16
- AC/DC signal Input
- AC signal input with filter
- Input buffer with voltage compactors

Applications

- Isolated digital input sensing
- Energy management
- Test Automation
- Process Control

Specifications

- I/O connector Electrical Specifications
  Configuration : 16 optically isolated digital input channels
  Compatibility : TTL compatible
- Digital Input
  Number of channels : 16 channels, each with it's own ground reference isolated from other channels
  Maximum input voltage :24 VDC or 24 VAC
  Power Consumption : 12V /0.53V ; 5V / 0.2A
  Digital Logic Level :

Level	Minimum	Maximum
Input low voltage (DC or peak AC)	0	±1V
Input high voltage DC/1kHz AC	±2.8VDC 4Vrms	±24VDC 24VAC

Input impedance: 1.2k
Source Current
5V inputs: 4 mA/channel minimum
24V inputs: 20 mA/channel minimum
Response Time: 20µs without filter / 2.2ms with filter
Power Supplies +5V@224mA/ maximum
Dimension :205mm x 114 mm
Operating Temperature: 0 -50°C
Storage Temperature: -20-70°C
Humidity: 5% to 90 % non-condensing

Order Description

- DB-16P: 16 channel Isolation Board with 20-PIN flat-cable

Isolation Digital Input With AC Filter Circuit