



# MicroComm DXI

DIO-100

Discrete Input/Output Board

## Description

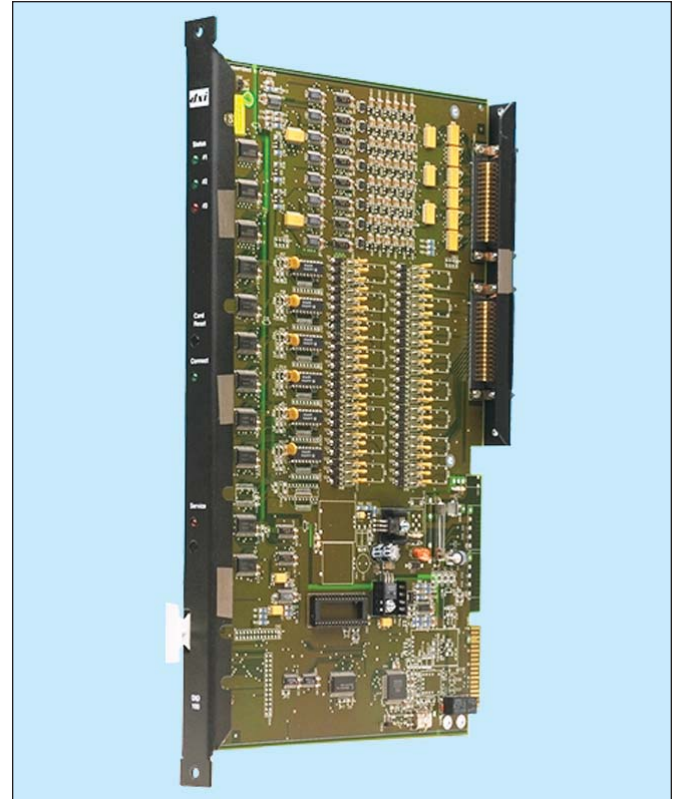
The DIO-100 is the card cage version of the Discrete Input/Output Board. It provides interfaces that monitor external switches or drive external outputs.

It has an input capacity of 48 contact closure monitor points, which may be software configured for either supervised or non-supervised operation. With terminating resistors installed, supervised inputs can detect open circuit and short circuit trouble conditions as well as the independent status of one or two switches per circuit.

Each DIO-100 can also have either 48 solid-state output drivers or 16 relay outputs. Solid-state drivers are available in voltage source, current sink, and LED types. Each relay output provides both normally open and normally closed contacts.

## Features

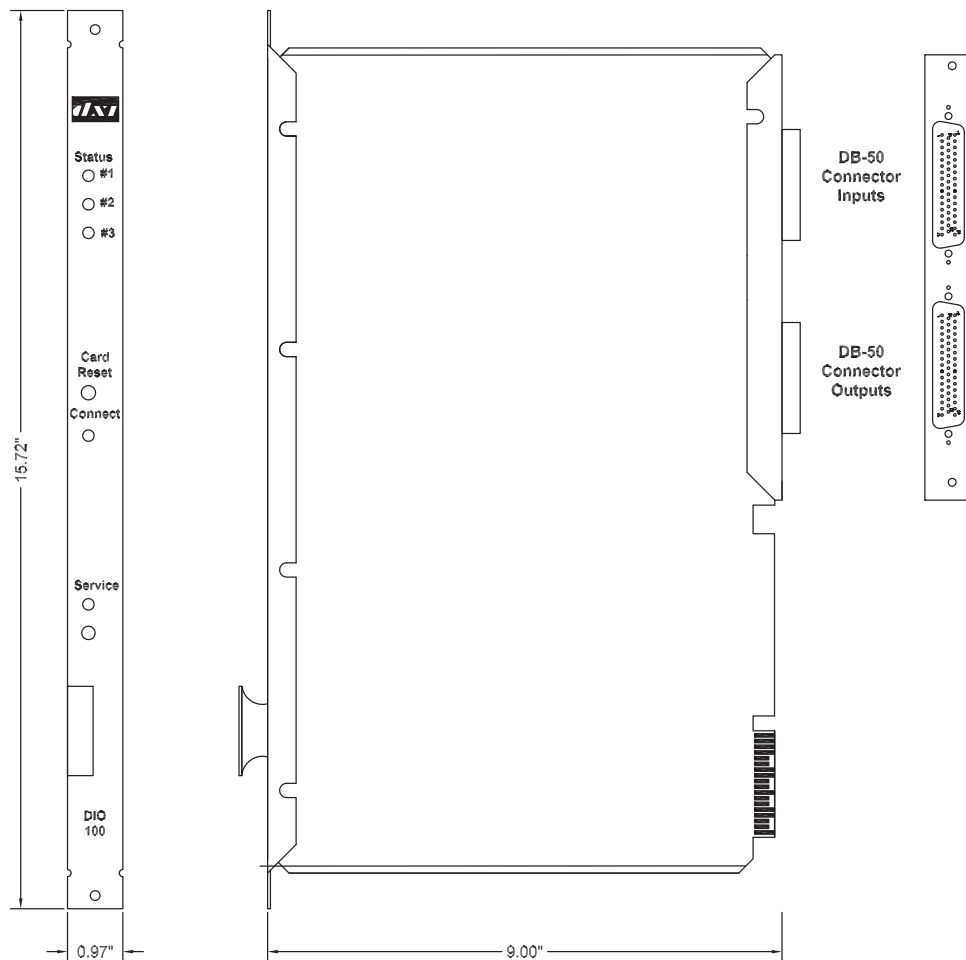
- 48 supervised or non-supervised inputs
- with terminating resistors, each supervised input can monitor one or two distinct contacts for a total of up to 96 contact inputs
- supervised inputs detect open and short circuit faults in field wiring
- 2000 V transient protection on all inputs
- 48 current sinking, voltage source, or LED driver outputs or 16 form C relay outputs
- form C relay outputs with normally open, normally closed, and common contacts
- high current switching of external devices
- short circuit protection on all outputs
- automatic self-test on power up
- self-test functions can be operated from the SAC computer
- flash memory enables updating of the firmware over the network
- 1 LED indicate network status
- 3 LED's indicate operating status
- reset switch
- live card insertion and removal to expedite installation and maintenance
- internal fuse protects circuitry



## Specifications

Physical Form Factor	MicroComm DXI I/O Card
Environmental	
Operating Temperature	32 to 122 °F (0 to 50 °C)
Storage Temperature	-40 to 158 °F (-40 to 70 °C)
Humidity	0 to 95 % non-condensing
Power Supply	±12 Vdc ± 10% @ 2 A max provided by I/O Card Cage
Field Connections	
Input	DB-50 with quick release lock
Output	DB-50 with quick release lock
I/O Capacity	48 supervised inputs and 16 or 48 outputs
Input	23 K ohm pull up to 12 Vdc
Output	
source	12 Vdc, 30 mA max
LED	10 mA
sink	30 mA max
relay	form C 30 Vdc max, 400 mA max
Standards	FCC Part 15

## Mechanical



## Ordering Information

Part number DIO-100-ABC

- A input options
  - 1 contact
- B output options
  - 0 none
  - 1 source
  - 2 LED
  - 3 sink
  - 4 relay
- C network type options
  - 1 direct connect
  - 2 free topology

## Accessories

Field Interface Cables

CBL-140-A

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9564 Yellowhead Trail NW  
Edmonton, AB T5G 0W4  
sales@harding.ca

Tel 780.462.7100  
Fax 780.450.8396  
www.harding.ca



Represented by: