

## DP-CPCI-4305

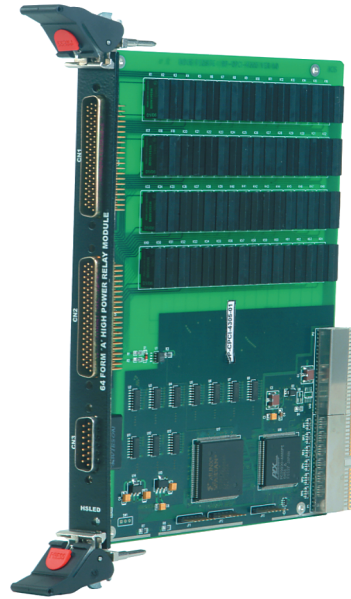
## 64 Channel Form A High Power Relay

### KEY FEATURES AND BENEFITS

- 64-channel Form A relays in a single 6U module
- Max switching voltage 500V DC/peak AC
- Max carry current of 2A DC/peak AC
- Max switching current of 2A DC/peak AC
- Max switching power of 60W
- Software verification of latched data
- Mercury-wetted contact relays for bounce free operation
- Hot-swap compliant
- Single slot 6U form factor
- 1 Form A SPST switch
- Profile made with update time of min 10ms to max 10 minutes
- 1K profile memory depth
- Windows 2000 drivers provided
- RT Linux drivers provided

### APPLICATIONS

- Power routing
- Automatic test equipment
- Relay outputs for soft PLCs
- Bounce-free switching
- Relay outputs for soft PLCs
- Bounce free switching



### OVERVIEW

DP-cPCI-4305 is a 64-channel 1 Form A, high power relay module. This general purpose relay can be used for high power switching applications. Applications for this module include power routing, automatic test equipment, relay output for soft PLCs and bounce-free switching.

### THE MODULE

DP-cPCI-4305 is built on 6U cPCI form factor and is constructed as a general-purpose relay module. The relays used are normally open type configuration when power is off, and are mercury-wetted to result in bounce-free operation. The cPCI-4305 relay module complies with PICMG2.1R1.0 hot-swap specifications.

### RELAY DRIVING

The relays are driven from a secondary latch, which is loaded from a primary latch. This allows controlling all 32 relays simultaneously from the secondary latch.

### TERMINATIONS

Inputs and outputs of relays are terminated on 2 numbers of 62-pin D-type male connector and one number of 15-pin D-type male connector.

### SOFTWARE SUPPORT

The module is supplied complete with device drivers in Windows 2000 and RT Linux.

Please contact factory for support in any other operating system such as VxWorks, QNX, InTime, Lynx and Greenhills Integrity etc.

# DATA PATTERNS

## DP-CPCI-4305

### SPECIFICATIONS

#### SWITCHING CHARACTERISTICS

No. of channels	64
Type of contact	Mercury-wetted
Switching voltage	500V DC/peak AC max.
Switching current	2A DC/peak AC max.
Carry current	2A DC/peak AC max.
Switching power	50W max

#### DC CHARACTERISTICS

Contact resistance (connector level)	200m Ohm max.
Insulation resistance	1GOhm min at 500V DC
Power ON state	NO
Power DOWN state	NO
Isolation	1000V DC

#### SWITCHING

Relay Life	11 x 10 <sup>10</sup> Switching operations
Relay closure time	2.5msec - 5msec
Relay release time	2.5msec - 5m sec

#### CONNECTOR

2 x 62-pin D-type male 1 x 15 pin D-type male

#### ENVIRONMENT

Commercial

#### POWER SUPPLY

+5V @ 100mA  
+3.3V @ 500mA

#### ORDERING INFORMATION

DP cPCI 4305 3 0 0

Factory options specified based on applications

Commercial grade

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### BLOCK DIAGRAM OF 6U cPCI 64 Form A, High Power Relay Module

