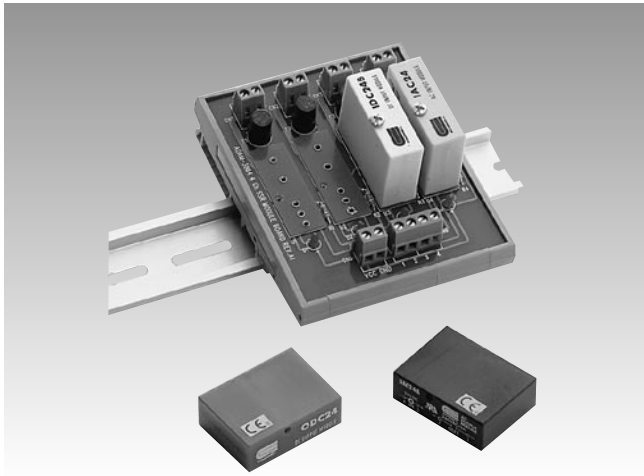


ADAM-3864

4-channel Solid State Digital I/O Module Carrier Backplane



Features

- 4-channel carrier backplane for any combination of AC or DC I/O modules
- 2,500 V_{RMS} optical isolation
- LED channel status indicator for easy monitoring
- On-board fuse protection
- DIN-rail mounting

Introduction

The ADAM-3864 is a solid state digital I/O module carrier backplane that accommodates any combination of up to four high-performance, low-cost, photocoupler-isolated solid state, digital I/O modules. This backplane can accept either 24 V_{DC} or 5 V_{DC} I/O modules, depending on the type of power supply.

Specifications

Input Modules

Field Side:

- **Turn on/off Time** IAC24 series: 20 msec. max.
IAC24A series: 20 msec. max.
IDC24B series: 100 msec. max.
- **Input on/off Voltage Range** IAC24 series: 90 ~ 140 V/45 V_{RMS}
IAC24A series: 180 ~ 280 V/80 V_{RMS}
IDC24B series: 3 ~ 32 V/1 V_{DC}
- **Input Resistance** IAC24 series: 14 k Ω
IAC24A series: 44 k Ω
IDC24B series: 1.5 k Ω

Logic Side:

- **Supply Voltage** 24 V_{DC}
- **Supply Current** 12 mA max.
- **Output Current** 100 mA max.
- **Output Voltage Drop** 0.4 V max.
- **Breakdown Voltage** 30 V_{DC}

Output Modules

Field Side:

- **Turn on/ Turn off Time** OAC series: 1/2 AC cycle max.
ODC series: 100 msec./750 msec. max.
- **Current Rating** 3 A max. (@ 25° C)
- **Contact Voltage Drop** 1.6 V max.

Logic Side:

- **Supply Voltage** 24 V
- **Supply Current** 12 mA max.
- **Input Resistance** 220 Ω
- **Dimensions (L x H x W)** 118.4 x 90 x 59 mm (4.66" x 3.54" x 2.32")

Module type		Field side		Logic side
Output module		Output voltage rating	Output current rating	Output logic and SSR status
AC output	OAC24A	24 ~ 280 V _{AC}	3.0 A _{AC}	0 V (On)
DC output	ODC24	5 ~ 60 V _{DC}	3.0 A _{DC}	24 V (Off)
Input module		Input on voltage	Input off voltage	Input logic and On/Off status
AC input	IAC24	90 ~ 140 V _{AC}	< 45 V _{AC}	0 V (On)
	IAC24A	180 ~ 280 V _{AC}	< 80 V _{AC}	
DC input	IDC24B	3 ~ 32 V _{DC}	< 1 V _{DC}	24 V (Off)

Ordering Information

- **ADAM-3864** 4-channel Solid State Digital I/O Module Carrier Backplane
- **OAC24A** AC Output Module (24-280 V_{AC}, 3 A)
- **ODC24** DC Output Module (5-60 V_{DC}, 3 A)
- **IAC24** AC Input Module (90-140 V_{AC})
- **IAC24A** AC Input Module (180-280 V_{AC})
- **IDC24B** DC Input Module (3-32 V_{DC})

Block Diagrams

