PCIE-1763AH PCIE-1763DH

16-ch Solid-State Relay Output(for AC) and 16-ch Isolated Digital Input w/ Digital Filter & Interrupt PCIe Card

16-ch Solid-State Relay Output(for DC) and 16-ch Isolated Digital Input w/ Digital Filter & Interrupt **PCIe Card**



Features

- 16-ch solid-state relay (SSR) output with longer lifetime and higher operating speed compared to electro-mechanical relays
- Zero-crossing (synchronous) trigger for reduced inrush current and electrical noise
- 16-ch photoMOS relay output with longer lifetime and higher operating speed compared to electro-mechanical relays
- Much less contact problems such as arcs, bounce, and noise
- Suitable for both AC and DC applications with frequent ON/OFF switching
- LEDs for output state indication .
- 16-ch isolated digital input (IDI) with both dry and wet contact configurations
- Interrupt capability for all IDI channels
- Programmable duration noise filter for all IDI channels

Introduction

The PCIE-1763AH provides 16 solid-state relay (SSR) outputs and 16 isolated digital input. The SSRs are classified to semiconductor relays which do not have moving contact and differ from the conventional electro-mechanical relays in many ways. They are superior to electro-mechanical relays in longer lifetime, higher operating speed, less contact problems such as arcs, bounce, and noise. In addition, the zero-crossing (synchronous) trigger effectively reduces inrush current and electrical noise during SSR turn-on. Therefore, they are most suitable for applications which need conducting high voltage (> 80 VAC) AC loads and frequent ON/OFF switching.

The PCIE-1763DH provides 16 photoMOS relay outputs and 16 isolated digital input. The photoMOS relays are classified to semiconductor relays which do not have moving contact and differ from the conventional electro-mechanical relays in many ways. They are superior to electro-mechanical relays in longer lifetime, higher operating speed, less contact problems such as arcs, bounce, noise, and smaller size. Therefore, they are most suitable for applications which need conducting AC or DC low voltage load (< 60 V) and frequent ON/OFF switching.

The isolated digital inputs accept both dry and wet contact configurations. All channels have interrupt capability and are equipped with programmable duration noise filter.

Specifications

Solid-State Relay Output (PICE-1763AH)

 Channels 	16	
 Relay type 	Solid-state relay SPST (form A)	
 Load voltage 	400 V max. (AC rms)	
 Load current 	1.2 A _{RMS} max.	
Peak load current	12 A (1 cycle @ 60 Hz)	
 On-state voltage drop 	2.5 V max.	
 Off-state leakage current 	100 µA max.	
 Critical rate of rise of 	200 V/µs min.	
off-state voltage		
 Holding current 	25 mA max.	
 Zero crossing voltage 	50 V max.	
 Turn-on time 	100 µs max.	
 Isolation protection 	5000 V _{RMS}	
Solid-State Relay Output (PCIE-1763DH)		
 Channels 	16	
 Relay type 	PhotoMOS SPST (form A)	
 Load voltage 	60 V _{DC} max.	
 Load current 	1.2 A max.	

	LE A Max.
 Turn-on time 	1.0 ms typ.
 Turn-off time 	0.6 ms typ.
Isolation protection	1.500 Vpc max.

Isolated Digital Input

Channels	16
Input voltage	Logic 0: 3 V max. (0 V min.)
	Logic 1: 10 V min. (30 V max.)
Input resistance	2.7 kΩ

Interrunt	canahility	

- All channels Noise filter 8 µs ~ 131 ms programmable for all channels
 - Opto-isolator response 50 us tvp./100 us max.
- Isolation protection 2,500 V_{DC} max.

General

- Interface
- I/O Connector type
- Dimensions
- Power consumption

- Typical: 3.3V @350mA, 12V @350mA Max: 3.3V@ 370mA, 12V @ 1000mA
- Operating temperature 0 ~ 60°C (32 ~ 140°F)
- Storage temperature
 - 5 ~ 95% RH (non-condensing) CF/FCC

Ordering Information

PCIE-1763AH-AE

PCIE-1763DH-AE

- 16-ch Solid-State relay (SSR) output and 16-ch isolated digital input w/ digital filter & interrupt PCle card
- 16-ch Solid-State Relay Output(for DC) and 16-ch isolated digital input w/ digital filter & interrupt PCIe card

Accessories • P

PCL-10162-1E	DB62 Shield
PCL-10162-3E	DB62 Shield

- ADAM-3962-AE
- ded Cable, 1 m ded Cable, 3 m DB62 DIN-rail Wiring Board

PCI Express x1 1 x DB62 female connector 168 x 100 mm (6.6" x 3.9")

- -20~70°C (-4~158°F)
- Storage humidity
- Certifications