Innovative I/O

Sealevel Digital I/O products are designed to simplify your automation and control projects. Terminal Block options are available to support all of your field wiring needs.

Relay/Digital I/O

Form A and Form C Relays

Form A reed relays provide high quality, long life, low current (10 Watt maximum) dry contact switch closures. Reed relays are suited for low current (primarily resistive load) applications. The relays are normally open, and close when energized. Each relay can be individually energized by writing a "1" to the proper port bit, and opened by writing a "0". The relays power up reset in the open state.

Form C electromechanical relays are optimized for higher current applications (up to 2A). Sealevel's PLC16.PCI Part # 8011 board provides eight Form C relays and eight isolated inputs. The 8011 is shown in the photo connected to our TB08 terminal block via DB44 cable to simplify field wiring.

Digital I/O

Digital I/O is used to control or monitor devices for computerized automation. Typically, digital outputs are used to drive relays. These relays are responsible for converting the digital signal to an appropriate current and voltage level that is capable of controlling the desired device such as a motor, PLC or
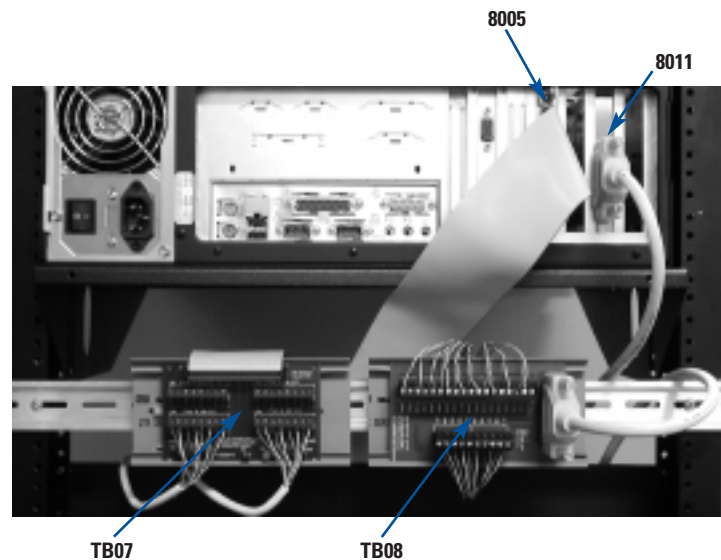
alarm system just to name a few. Conversely, optically isolated inputs are used to convert incoming control signals to electrical levels that are compatible with the host computer. Optical isolation is often used to protect the PC from voltage spikes or over-current situations.

Whether you're setting up a fall back circuit for your network, automating studio equipment or receiving inputs from users via push buttons, Relay and Digital I/O can often provide the solution you need. Pictured on the left is Sealevel Part # 8005 (PCI 48 channel Digital I/O adapter) connected to TB07 terminal block via ribbon cable.

PCI 24 and 32 Channel Digital I/O Interface

NEW PRODUCT

PIO-24.PCI/PIO-32.PCI

The PIO-24.PCI and PIO-32.PCI provide 24 or 32 channels of buffered Digital I/O emulating 8255s for industrial control applications. 10K pull up resistors are included on each port bit. The mode of each of the ports is user selectable as input or output. This gives the user the ability to customize the combination of inputs and outputs as needed. In addition, the low order bit of the first port can be set to generate an interrupt for status monitoring applications. A special factory configurable interrupt feature allows the user to request conditional I/O combinations for interrupt generation. When the I/O combination occurs, a hardware interrupt is triggered.
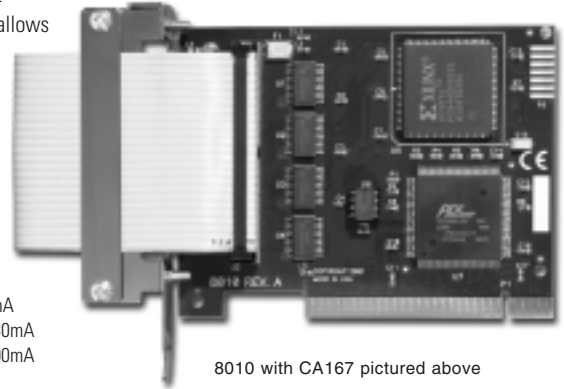
Unique Features

- 24 and 32 Channels of buffered digital I/O configurable as inputs or outputs
- Implemented as eight-bit I/O ports
- 8255 compatible
- 10K pull up resistors on each port bit
- Factory configured interrupt feature allows conditional interrupt generation

Technical Specifications

Number of channels 24, 32
Operating temperature . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Output specifications . . . .Sink/Source 24mA
Current specifications . . .8008 - +5V @ 480mA
8010 - +5V @ 500mA
Connector(s) . . . . .50 pin IDC
with cable lock
Physical dimensions . . . .8008 - 4.72"L x 3.7"H
(11.99 x 9.39 cm)
8010 - 4.72"L x 3.3"H
(11.99 x 8.38 cm)

8010 with CA167 pictured above

ORDERING INFORMATION

Description	Part No.	Price
24 Channel Digital I/O	8008	$159.00
32 Channel Digital I/O	8010	$179.00
Cable Options		
50 pin Terminal Block	TB07	$39.95
TB07 and CA167 Cable	KT107	$48.95
40 in. 50 pin Edge Cable	CA135	$9.95
40 in. 50 pin IDC Cable	CA167	$9.95

PCI 48 and 96 Channel Digital I/O Interface

NEW PRODUCT

PIO-48.PCI/PIO-96.PCI

The PIO-48.PCI and PIO-96.PCI provide 48 and 96 channels of buffered Digital I/O emulating 8255s for industrial control applications. The PIO family was designed to be 8255 hardware and software compatible. 10K pull up resistors are included on each port bit. The PIO boards contain groups of eight-bit I/O ports configurable as inputs or outputs to suit the automation task. The mode of each of the ports is user selectable as input or output. This gives the user the ability to customize the combination of inputs and outputs as needed. In addition, the low order bit of the first port can be set to generate an interrupt for status monitoring applications. A special factory configurable interrupt feature allows the user to request conditional I/O combinations for interrupt generation. When the I/O combination occurs, a hardware interrupt is triggered.

Technical Specifications

Number of channels 48, 96
Operating temperature . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Output specifications . . . .Sink/Source 24mA
Current specifications . . .8005 - +5V @ 794mA
8009 - +5V @ 1000mA
Connector(s) . . . .(2 or 4) 50 pin IDC
with cable lock
Physical dimensions . . . .8005 - 6.1"L x 4.1"H
(15.49 x 10.41 cm)
8009 - 4.72"L x 3.7"H
(11.99 x 9.39 cm)
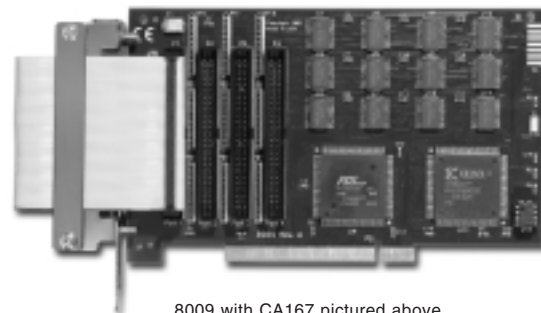
ORDERING INFORMATION

Description	Part No.	Price
48 Channel Digital I/O	8005	$199.00
96 Channel Digital I/O	8009	$299.00
Cable Options		
50 pin Terminal Block	TB07	$39.95
TB07 and CA167 Cable	KT107	$48.95
40 in. 50 pin Edge Cable	CA135	$9.95
40 in. 50 pin IDC Cable	CA167	$9.95

Unique Features

- 48 and 96 Channels of buffered Digital I/O configurable as inputs or outputs
- Implemented as eight-bit I/O ports
- 8255 compatible
- 10K pull up resistors on each port bit
- Factory configured interrupt feature allows conditional interrupt generation


8009 with CA167 pictured above

PCI 8 Input/8 Relay Output Digital I/O Interface

NEW PRODUCT

DIO-16.PCI

The DIO-16.PCI provides 8 Inputs and 8 Outputs, which can be utilized for PC-based control and automation of equipment including sensors, switches, satellite antenna control systems, video and audio studio automation, security control systems, and other industrial automation systems. In addition, the DIO-16.PCI is the perfect choice for integrating unattended status monitoring equipment, and fall-back network switching circuits. The DIO-16.PCI's 8 Inputs provide optical isolation to protect the PC and other sensitive equipment from spikes and ground loop current that can be generated in industrial environments. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.
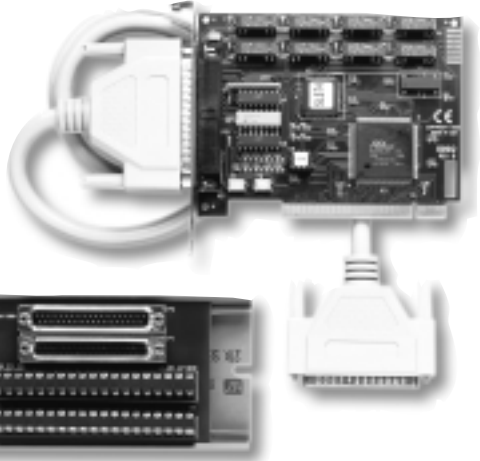
The 8 reed relay outputs provide high quality, long life, low current (10 Watt maximum), dry contact switch closures. Reed relays are well suited for low current applications. The relays are normally open, and close when energized. For development purposes, the card's DB-37 connector can be interfaced directly to Sealevel's terminal block kit, Part# KT-101.

Unique Features

- 8 SPST relays
- 1 eight bit optically isolated input port
- DB-37 Male connector
- Highly reliable 10 VA DIP reed relays
- Multiple adapters can reside in same PC
- PCI bus compliant
- Terminal Block and cable kit available to simplify field wiring requirements
- Supports all PCI interrupts

8002-KT pictured above

ORDERING INFORMATION		
Description	**Part No.**	**Price**
8 Input/8 Output	8002	$239.00
8002 with KT101 Kit	8002-KT	$279.00
Cable Options		
Terminal Block with 6 ft. M/F Cable	KT101	$48.95

Technical Specifications

Number of I/O . . . . .8 input/8 output
Operating temperature . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.

Current specifications . . .+5V @ 280mA
Connector(s) DB37P
Physical dimensions . . . .5.00" L x 3.9" H (12.70 x 9.91 cm)
Product Weight . . . . . . .3.2 ounces (90.71g)

PCI 8 Input/8 Form C Relay Output Digital I/O Interface

NEW PRODUCT

PLC-16.PCI

The PLC-16.PCI provides 8 Inputs and 8 Form C relay outputs, which can be utilized for PC-based control and automation. The PLC-16.PCI's 8 Inputs provide optical isolation to protect the PC and other sensitive equipment from spikes and ground loop current that can be generated in industrial environments.

The 8 Form C electromechanical relay outputs provide higher current capabilities (up to 2A) than reed relays. The PLC-16.PCI allows full access to both sides of all 8 Form C relays, providing a no compromise solution. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.

Unique Features

- 8 SPDT (single pole double throw) relays
- 1 eight bit optically isolated input port
- Optimized for 0-24 VAC or DC operation
- HD44 connector provides full access to all inputs and outputs
- Works with third party PC-based control programs
- TB08 provides PLC like connections
- Multiple adapters can reside in same PC
- PCI bus compliant
- Supports all PCI interrupts

Technical Specifications

Number of I/O . . . . .8 input/8 output
Operating temperature . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Current specifications . . .5V @ 240mA
Connector(s) . . . . .DB44S (Female)
Physical dimensions . . . .4.9" L x 4.2" H (12.45 x 10.67 cm)
Product Weight . . . . . . .4 ounces (113.39g)
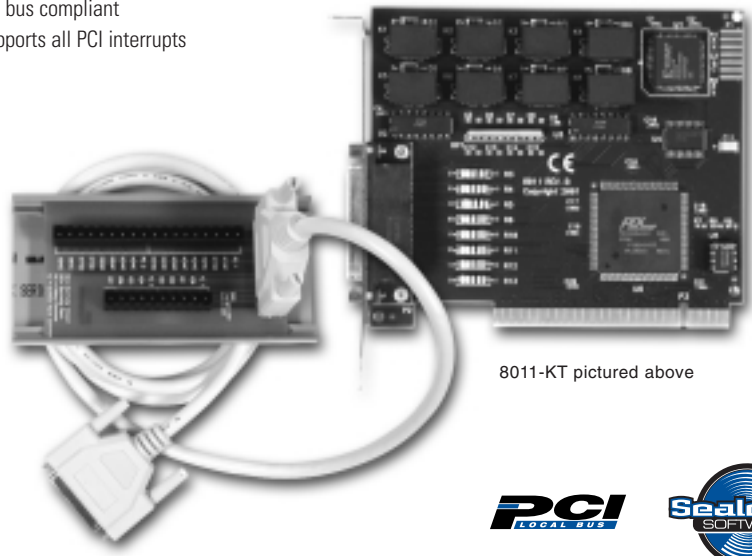
8011-KT pictured above

ORDERING INFORMATION		
Description	**Part No.**	**Price**
8 input / 8 Form C output	8011	$249.00
8011 w/ KT108	8011-KT	$299.00
8011 w/ KT109	8011-KT2	$339.00
Cable Options		
8011 Terminal Block	TB08	$39.95
TB08 and CA185 Kit	KT108	$58.95
37 pin Terminal Block	TB02	$39.95
(2) TB02 and CA184 Kit	KT109	$99.95

PCI 16 Input/16 Relay Output Digital I/O Interface

NEW PRODUCT

DIO-32.PCI

The DIO-32.PCI provides 16 Inputs and 16 Outputs, which can be utilized for PC-based control and automation of equipment including sensors, switches, satellite antenna control systems, video and audio studio automation, security control systems, and other industrial automation systems. The DIO-32.PCI's 16 Inputs provide optical isolation to protect the PC and other sensitive equipment from spikes and ground loop current that can be generated in industrial environments.

The 16 reed relay outputs provide high quality, long life, low current (10 Watt maximum), dry contact switch closures. Reed relays are well suited for low current applications. The relays are normally open, and close when energized. The card's included cable terminates in dual DB37 connectors for connection to Sealevel's terminal block Part# TB02. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.

Unique Features

- 2 sets SPST relays with each set having 8 relays
- 2 eight bit optically isolated input ports
- Highly reliable 10 VA DIP reed relays
- Multiple adapters can reside in same PC
- PCI bus compliant
- Terminal Block and cable kit available to simplify field wiring requirements
- Supports all PCI interrupts
- Includes a DB78 to (2) DB37 connector cable

Technical Specifications

Number of I/O . . . . .16 input/16 output
Operating temperature . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Current specifications . . .(2) DB37P
Connector(s) . . . .+5V @ 450mA
Physical dimensions . . . .5.00" L x 3.9" H (12.70 x 9.91 cm)
Product Weight . . . . .3.2 ounces (90.71g)
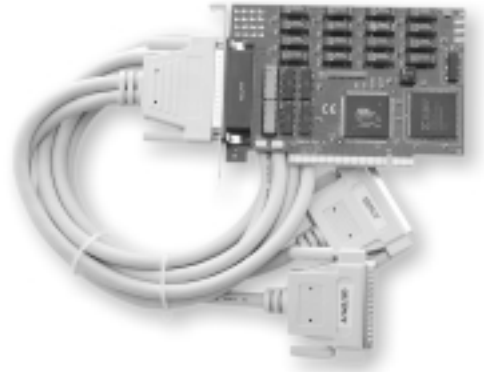
ORDERING INFORMATION

Description	Part No.	Price
16 Input/16 Output	8004	$399.00
8004 with (2) TB02 Terminal Blocks	8004-KT	$469.00
Cable Options		
Terminal Block	TB02	$39.95

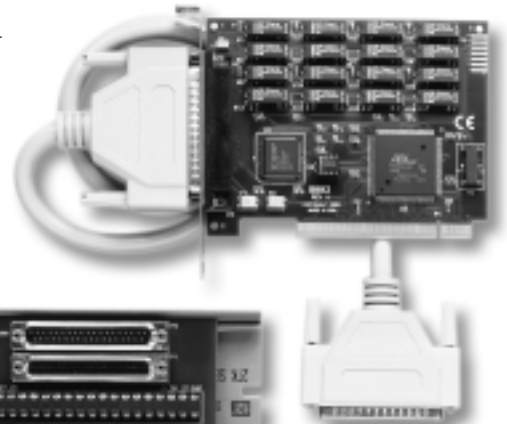# PCI 16 Relay Output Digital I/O Interface

NEW PRODUCT

REL-16.PCI

The REL-16.PCI provides 16 Outputs, which can be utilized for PC based control and automation of equipment including switches, satellite antenna control systems, video and audio studio automation, security control systems, and other industrial automation systems. In addition, the REL-16.PCI is the perfect choice for integrating unattended status monitoring equipment, and fall-back network switching circuits. The REL-16.PCI's reed relay outputs provide high quality, long life, low current (10 Watt maximum), dry contact switch closures. Reed relays are well suited for low current applications.

Unique Features

- 2 sets of SPST relays, 8 relays per set
- Highly reliable 10 VA DIP reed relays utilized
- Multiple adapters can reside in same computer
- DB-37 Male connector
- Terminal Block and cable kit available to simplify field wiring requirements

ORDERING INFORMATION

Description	Part No.	Price
16 Reed Relay Outputs	8003	$259.00
8003 with KT101 Kit	8003-KT	$299.00
Cable Options		
Terminal Block with 6 ft. M/F Cable	KT101	$48.95

Technical Specifications

Number of I/O . . . . 16 outputs
Operating temperature . . 0-50° C
Storage temperature . . . . -20-70° C
Humidity range . . . . 10-90% R.H.
Current specifications . . . +5V @ 360mA
Connector(s) DB37P
Physical dimensions . . . . 5.00" L x 3.9" H (12.70 x 9.91 cm)
Product Weight . . . . 3.2 ounces (90.71g)

8003-KT pictured above

PCI 16 Optically Isolated Input Digital I/O Interface

NEW PRODUCT

ISO-16.PCI

The ISO-16.PCI provides 16 optically isolated inputs for connection to devices including sensors, switches, push buttons, and other user inputs. The inputs can sense both AC and DC voltage while providing optical isolation, which eliminates spikes and surges present in industrial environments.

Unique Features

- 16 Optically isolated AC or DC inputs
- Socketed dip resistor allows user specified input range
- Power (+5 and +12) and ground provided on connector
- DB-37 Female connector
- Terminal Block and cable kit available to simplify field wiring requirements

Technical Specifications

Number of I/O . . . . .16 inputs
Operating temperature . . 0-50° C
Storage temperature . . . .20-70° C
Humidity range . . . . .10-90% R.H.
Current specifications . . .DB37P
Connector(s) . . . .+5V @ 260mA
Physical dimensions . . . .5.20" L x 3.5" H (13.21 x 8.89 cm)
Product Weight . . . . . . .3.2 ounces (90.71g)

ORDERING INFORMATION

Description	Part No.	Price
16 Isolated Inputs	8006	$219.00
8006 with KT-101 Kit	8006-KT	$259.00
Cable Options		
Terminal Block with 6 ft. M/F Cable	KT101	$48.95
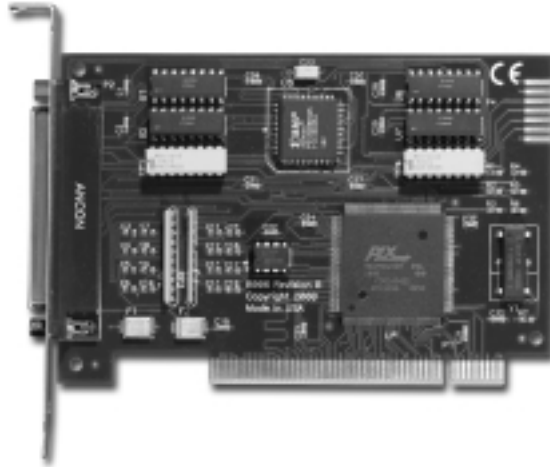
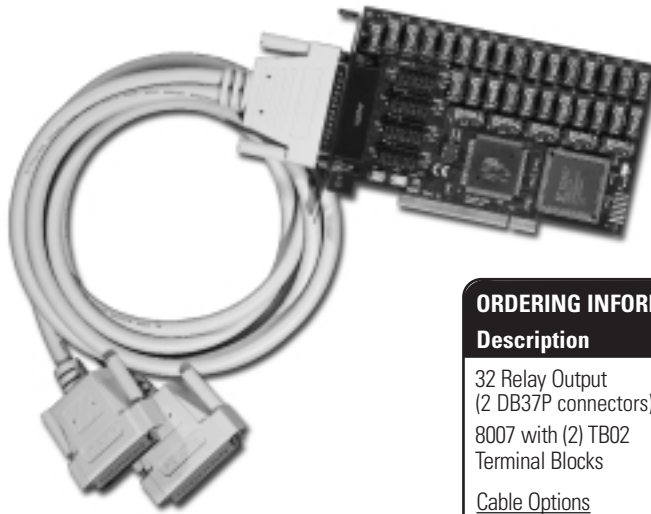# PCI 32 Relay Output Digital I/O Interface

NEW PRODUCT

REL-32.PCI

The REL-32.PCI provides 32 reed relay outputs, which can be utilized for PC based control and automation of equipment including switches, satellite antenna control systems, video and audio studio automation, security control systems, and other industrial automation systems. In addition, the REL-32.PCI is the perfect choice for integrating unattended status monitoring equipment, and fall-back network switching circuits. The REL-32.PCI's reed relay outputs provide high quality, long life, low current (10 Watt maximum), dry contact switch closures. Reed relays are well suited for low current applications. The relays are normally open, and close when energized.

Unique Features

- 4 sets SPST relays with each set having 8 relays
- Highly reliable 10 VA DIP reed relays utilized
- Included 6ft. DB78 cable terminates in two DB37 Male connectors
- Terminal Block and cable kit available to simplify field wiring requirements
- Windows and Linux drivers provided

Technical Specifications

Number of I/O . . . . 32 output
Operating temperature . . 0-50° C
Storage temperature . . . . -20-70° C
Humidity range . . . . 10-90% R.H.
Current specifications . . . +5V @ 550mA
Connector(s) . . . . (2) DB37P
Physical dimensions . . . . 6.625" L x 3.9" H (16.38 x 9.91 cm)
Product Weight . . . . 3.2 oz. (90.71g)

ORDERING INFORMATION

Description	Part No.	Price
32 Relay Output (2 DB37P connectors)	8007	$469.00
8007 with (2) TB02 Terminal Blocks	8007-KT	$539.00
Cable Options		
Terminal Block	TB02	$39.95
Terminal Block with 6ft. M/F Cable	KT101	$48.95

RELAY/DIGITAL I/O BOARDS

27

USB 48 and 96 Channel Digital I/O Adapters

NEW PRODUCT

SeaPORT™ PIO Series

The SeaPORT™ PIO Series contains 48 or 96 channels of buffered digital I/O emulating 8255s for industrial control applications. The SeaPORT PIO Series is designed to be 8255 hardware and software compatible. 10K pull up resistors are included on each port bit. The SeaPORT PIO Series contains eight-bit I/O ports, configurable as inputs or outputs to suit the automation task. The mode of each of the ports is user selectable as input or output. This gives the user the ability to customize the combination of inputs and outputs as needed. In addition, the low order bit of the first port can be set to generate an interrupt for status monitoring applications. A special factory configurable interrupt feature allows the user to request conditional I/O combinations for interrupt generation. When the I/O combination occurs, a hardware interrupt is triggered.

Unique Features

- Implemented as eight-bit I/O ports
- 10K pull up resistors on each port bit
- True "Hot Swapping"/auto configuration
- Factory configured interrupt feature allows conditional interrupt generation
- Includes SeaI/O Windows 98/ME/2000 drivers and sample applications

Technical Specifications

Number of channels 48, 96
Operating temperature . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Power specifications . . . .From AC adapter
Output specifications . . . .Sink 64mA
Source 32mA
Logic level . . . . .TTL
Connector(s) . . . .(2 or 4) 50 pin IDC
Physical dimensions . . . .7.0"L x 5.25"W x 1.5"H
(17.78 x 13.34 x 3.81cm)
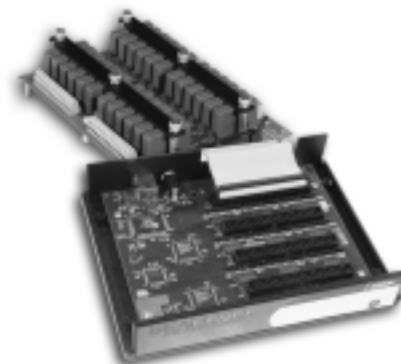
ORDERING INFORMATION

Description	Part No.	Price
48 Channel Digital I/O	8203	$319.00
96 Channel Digital I/O	8205	$359.00
Cable Options		
50 pin Terminal Block	TB07	$39.95
TB07 and CA167 Cable	KT107	$48.95
40 in. 50 pin Edge Cable	CA135	$9.95
40 in. 50 pin IDC Cable	CA167	$9.95

Relay I/O Cables and Kits

These kits have been assembled to simplify connections from Sealevel Systems' Relay/Digital I/O boards to I/O modules, Relay Mounting Boards, Signal Conditioning Boards, Terminal Blocks and other I/O devices. When used with the appropriate I/O board, these kits create a comprehensive, low-cost I/O solution.

Digital I/O Terminal Block

PHOTO ABOVE:

Description	Part No.	Price	For Use With:
50 Pin Terminal Block	•TB07	$39.95	8005, 8008, 8009, 8010, 8203, 8205, 4030
TB07 with 40 in. IDC Ribbon Cable	•KT107	$48.95	8005, 8008, 8009, 8010, 8203, 8205, 4030

Relay I/O Terminal Block

PHOTO ABOVE:

Description	Part No.	Price	For Use With:
Terminal Block with 6 ft. M/F Cable	•KT101	$48.95	8002, 8003, 8004, 8006, 8007, 3093, 3094, 3095, 3096, 3098

ISA 48 Channel Digital I/O Interface

PIO-48

The Sealevel Systems' PIO-48 Digital I/O interface is designed around two 8255 chips, each providing 24 I/O lines. The board has a Dip-switch for flexible I/O addressing, IRQ jumpers for interrupts and two sets of connectors for each port. A standard 50-pin solid state relay I/O module connector and a 40-pin connector with power and IRQ signals is provided. The 50-pin connects (through an optional cable) to industry standard PB-8, -16 or -24 solid state relay I/O modules.

The 40-pin connector, terminated in an optional DB37 cable, matches the pin-out of "Generic" PIO-12 boards. By using the PIO-48 with two of these cables, you can get two times the I/O of the PIO-12 on one board. Also provided is a software interface that allows you to set, reset, examine or monitor any bit or I/O line. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.
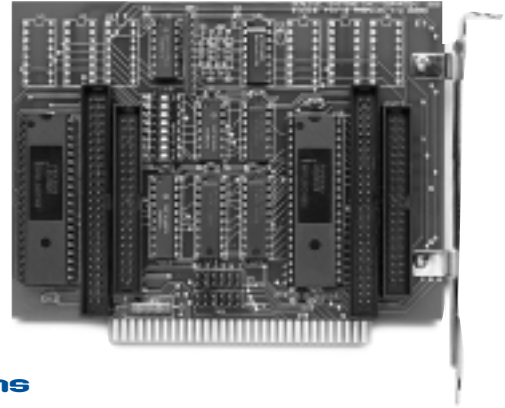
Unique Features

- Two 8255 I/O ports
- Interfaces two 24-module relay racks
- Example driver software provided
- Cables available

Technical Specifications

I/O chips . . . .(2) 8255 parallel I/O chips
Number of ports . . . . .Three 8-bit parallel ports
Operating temperature . . .0-50° C
Storage temperature . . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Physical dimensions . . . . .5.25" L x 4.2" H
　　　　　　　　　　　　　　　(13.335 x 10.66 cm)

ORDERING INFORMATION

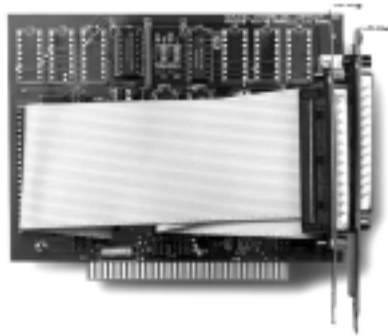| Description	Part No.	Price
48-Line Digital I/O	4030	$109.00
PIO-48 with (2) 6 in. DB37P Cables	4031	$129.00
4031 with (2) KT101 Kits	4031-KT	$209.00
Cable Options		
50 pin Terminal Block	TB07	$39.95
TB07 and CA167 Cable	KT107	$48.95
40 in. 50 pin Edge Cable	CA135	$9.95
40 in. 50 pin IDC Cable	CA167	$9.95

PIO-48 Cable Options

These kits have been assembled to simplify connections from Sealevel Systems' 48 channel ISA I/O board to I/O modules, Relay Mounting Boards, Signal Conditioning Boards, Terminal Blocks and other I/O devices. These kits create a comprehensive, low-cost I/O solution.

Option 1:

Part No. 4031 with (2) six in. DB37P Cables

$129.00

Screw Terminal wires to sensors, switches or other I/O devices

DIAGRAM ABOVE:

Description	Part No.	Price
Terminal Block with 6 ft. M/F Cable	●KT101	$48.95

Option 2:

Part No. 4030 with (2) CA135 Cables

$129.00

PC　　　CA135　　　Relay Module Rack (PB-24)
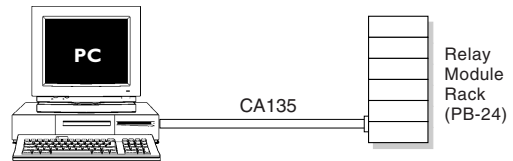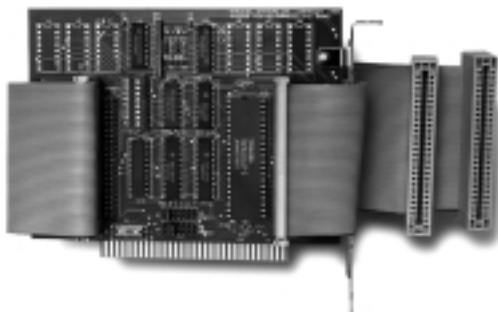
DIAGRAM ABOVE:

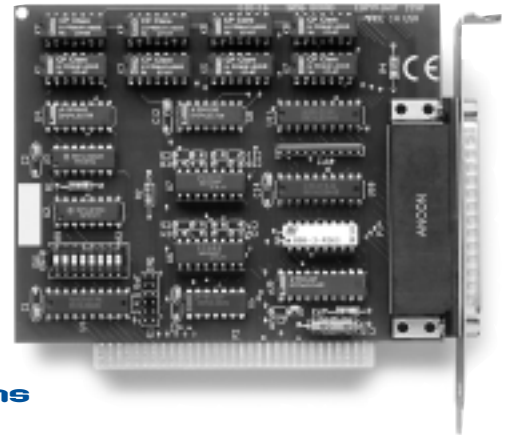| Description	Part No.	Price
40 in. Edge Ribbon Cable	●CA135	$9.95
40 in. IDC Ribbon Cable	●CA167	$9.95

ISA 8 Input/8 Relay Output Digital I/O Interface

DIO-16

The DIO-16 provides 16 channels of Digital I/O for the PC. 8 isolated inputs are available providing protection to connected equipment. Use isolated inputs for communicating alarm conditions from remote locations or remote processes. 8 Reed relay outputs are also provided allowing PC control of lights, buzzers, switches, motors and other low current devices supporting on/off control. The DIO-16 is software compatible with the DIO-32B. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.

Unique Features
- 8 Reed relay outputs
- Highly reliable 10VA DIP Reed relays utilized
- 8 optically isolated AC or DC inputs
- Output ports have non-destructive read-back
- Supports interrupts 2-7
- Selectable port address (four port boundary)
- DB37 connector for all 8 inputs and 8 outputs
- Socketed DIP resistor allows user specified input range (3-12V AC/DC standard)

Technical Specifications
Number of I/O . . . . .8 Input, 8 Output
Input range . . . . .3-12V AC/DC
Input isolation . . . . .Optical, 400V
Output relay specs . . . . .200M Operations 10VA, Resistive Load
Throughput 660Hz
Operating temperature . . . . . . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Connector(s) . . . .(1) DB37P
Current Specifications . . . .+5V @ 270mA
Physical dimensions . . . . .4.9" L x 4.2" H (12.446 x 10.66 cm)

ORDERING INFORMATION
| Description	Part No.	Price
8 Input/8 Output	3096	$179.00
3096 w/KT101 Kit	3096-KT	$219.00
Cable Options Terminal Block with 6 ft. M/F Cable	KT101	$48.95

ISA 16 Input/16 Relay Output Digital I/O Interface

DIO-32B

The DIO-32B provides 32 channels of isolated Digital I/O for the PC. The card is designed with four ports containing 8 channels each. Ports A and B each offer 8 channels of optically isolated inputs. Each input is isolated from ground, host PC ground, and from all other channels. Isolation is provided for up to 400V DC. Ports C and D each offer 8 bits of Reed relay outputs for controlling the on/off status of external devices or other low current level applications. These ports have non-destructive read-back capability. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.
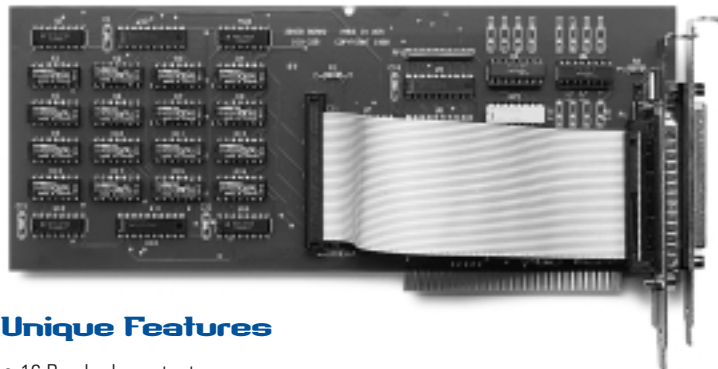
Unique Features
- 16 Reed relay outputs
- Highly reliable 10VA DIP Reed relays utilized
- 16 optically isolated AC or DC inputs
- Output ports have non-destructive read-back
- Supports interrupts 2-7
- Selectable port address (four port boundary)
- DB37 connectors for all 16 inputs and 16 outputs
- Socketed DIP resistor allows user specified input range (3-12V AC/DC standard)

Technical Specifications
Number of I/O . . . . 16 Input, 16 Output
Input range . . . . 3-12V AC/DC
Input isolation . . . . Optical, 400V
Output relay specs . . . . . . 200M Operations 10VA, Resistive Load
Throughput 660Hz
Operating temperature . . . 0-50° C
Storage temperature . . . . -20-70° C
Humidity range . . . . 10-90% R.H.
Connector(s) . . . . (1) DB37P, (1) DB37S
Current Specifications . . . +5V @ 800mA
Physical dimensions . . . . . 9.75" L x 4.2" H (24.77 x 10.66 cm)

ORDERING INFORMATION
Description	Part No.	Price
16 Input/16 Output	3093	$339.00
3093 w/(2) KT101 Kits	3093-KT	$419.00
Cable Options Terminal Block with 6 ft. M/F Cable	KT101	$48.95

ISA 16 Isolated Input and 16 Relay Output Digital I/O Interface

ISO-16 and REL-16

The Sealevel Systems' ISO-16 provides 16 optically isolated inputs for connection to devices including push buttons, switches and other user inputs. The REL-16 provides 16 Reed relay outputs for controlling devices via on/off closures. Each card provides 1/2 of the inputs and outputs of the DIO-32B card. Simply write to the address corresponding to the relay to change the relays state. All relays power up in an open state. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.

ORDERING INFORMATION

| Description	Part No.	Price
16 Isolated input interface	3094	$149.00
3094 with KT101 Kit	3094-KT	$189.00
16 relay output interface	3095	$189.00
3095 with KT101 Kit	3095-KT	$229.00
Cable Options		
Terminal Block with 6 ft. M/F Cable	KT101	$48.95

Unique Features

ISO-16

• 16 optically isolated AC or DC inputs
• DB37S connectors for 16 inputs
• Socketed DIP resistor allows user specified input range (3-12V AC/DC)
• Selectable port address
• Power (+5, +12) and ground provided on connector

REL-16

• 16 Reed relay outputs
• Highly reliable 10 VA DIP Reed relays utilized
• Power (+5, +12) and ground provided on connector
• DB37 Male connector for relay outputs
• Output ports have non-destructive read-back capability
• Selectable port address/Software compatible with DIO-32B
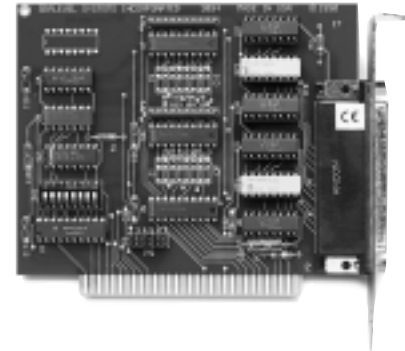
Technical Specifications

Number of I/O
  Part No. 3094 . . . . .16 Isolated Inputs
  Part No. 3095 . . . . .16 Reed Relay Outputs
Input range . . . . .3-12V AC/DC (Part No. 3094)
Input isolation . . . . .Optical, 400V (Part No. 3094)
Relay specifications . . . . .25VA dual coil (Part No. 3095)
Output relay specs . . . . . .200M operations,
                        10VA, Resistive load
Throughput 660Hz
Operating temperature . . .0-50° C
Storage temperature . . . .-20-70° C
Humidity range . . . . .10-90% R.H.
Current specifications-
  Part No. 3094 . . . .+5V @ 200 mA
  Part No. 3095 . . . .+5V @ 380 mA
Connector(s)
  Part No. 3094 . . . . .DB37S
  Part No. 3095 . . . . .DB37P
Physical dimensions
  Part No. 3094 . . . . .4.9" L x 4.2" H (12.446 x 10.66 cm)
  Part No. 3095 . . . . .4.9" L x 4.2" H (12.446 x 10.66 cm)

ISA 32 Switched Relay Output Digital I/O Interface

REL-32

The REL-32 Relay output adapter provides four banks of eight switched Reed relays. The card's DB37 connector brings out the A-side of all relays while the optional B-side connector brings out the B-side and commons of all relays to a second DB37 connector. This allows access to both sides of all 32 switches. For increased flexibility, an onboard jumper header allows the user to create any custom switch interconnection wiring desired. The REL-32 can easily be configured as 32 independent relays, or as a 4x8, 2x16 or 1x32 matrix switch. The cable is only necessary if you want the 32 independent relay option. Our Seal/O Windows Digital I/O drivers are included allowing rapid application development.

ORDERING INFORMATION

Description	Part No.	Price
32 Channel Relay interface	3098	$389.00
3098 with (2) KT101 Kits and CA108	3098-KT	$479.00
Cable Options		
Terminal Block with 6 ft. M/F Cable	KT101	$48.95

Switching Relays

Reed relays provide high quality, long life, low current (10 Watt maximum) dry contact switch closures Reed relays are suited for low current (primarily resistive load) applications. The relays are normally open, and close when energized. Each relay can be individually energized by writing a "1" to the proper port bit, and opened by writing a "0". The relays power up reset in the open state.

Unique Features

• 32 Reed relay outputs
• 4 sets SPST relays with each set having 8 relays
• Selectable I/O port addressing from 200H - 3F8H
• Highly reliable 10 VA DIP Reed relays
• Switch power, data and other electronic signals
• Multiple switching combinations enabled by onboard option header
• Discreet access to both sides of all relays accessible with optional B-side cable
• +5V DC, +12V DC and relay group commons fused at 1 amp are available from PC

Technical Specifications

Number of I/O . . . . 32 Outputs
Output relay specs . . . . . . 200M Operations
                        10VA, Resistive Load
Contact Speed . . . . 5 mSec (operate, release, bounce)
Operating temperature. . . 0-50° C
Storage temperature . . . . -20-70° C
Humidity range. . . . . 10-90% R.H.
Current specifications . . . +5V @ 800mA
Physical dimensions. . . . . 13.33" L x 4.2" H (33.85 x 10.66 cm)