ISO-P32C32/P64/C64

64-channel isolated DI/O board



ISO-P32C32

Features

- 32-channel isolated digital input & 32-channel isolated digital output (ISO-P32C32)
- 64-channel isolated digital input (ISO-P64)
- 64-channel isolated digital output (ISO-C64)
- Sink current up to 100 mA on each isolated output
- Four isolated bank, 3000VDC isolation voltage
- DC/DC converter build-in (ISO-P32C32 & ISO-P64)
- Two interrupt source: channel 0 and channel 15 (ISO-P32C32)

Functional Description

The ISO-P32C32/P64/C64 provide 64 optically isolated digital input and/or output channel, arranged into four isolated banks. Each input channel use a photo-coupler input which allows either internal isolated power supply or external power selected by jumper. Each digital output offers a Darlington transistor and integral suppression diode for inductive load. The power supply of the input port may use the external power or the power from the PC side using DC/DC converter. The power supply of the output port should use the external power. This interface board is easily installed in any PC/AT. The board interface to field logic signals, eliminating ground loop problems and isolating the host computer from damaging voltages. The ISO-P32C32/P64/C64 has one 37-pin D-Sub connector and one 40-pin male header. The 40-pin to DB-37 flat-cable is used to fixed with the case. The user can connect the digital signal through the second D-Sub connector.

Applications

- Factory Automation
- Product Test
- Laboratory Automation

Specifications

Isolated Digital Output

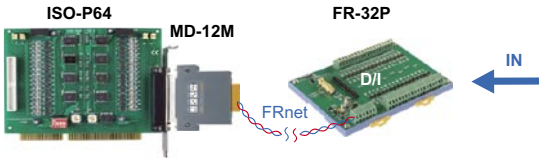
- Number of channels: 32 (ISO-P32C32)
  64 (ISO-C64)
- Type: Isolated open-collector (NPN type)
- Sink current: 100 mA per channel
- External voltage: 30V max
- Response time: 30KHz max

Isolated Digital Input

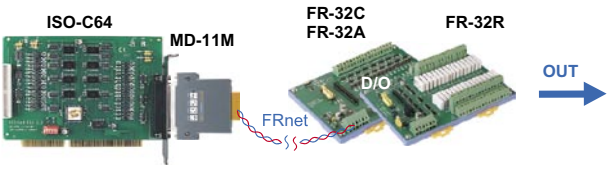
- Number of channels: 32 (ISO-P32C32)
  64 (ISO-P64)
- Type: Isolated current input
- Isolation voltage:
  3750V (using external power)
  3000V (using internal power)
- Input voltage: 5V to 30V
- Input impedance: 3KΩ; 1/4W
- Response time: 4KHz max

General Specifications

- I/O connector:
  one 37-pin D-Sub female & one 40-pin header
- Power requirements:
  +5V @ 600 mA (ISO-P32C32)
  +5V @ 400 mA (ISO-P64)
  +5V @ 800 mA (ISO-C64)
- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Dimensions: 163 mm x 115 mm



FRnet (two-wire cable; can be up to 400 m)



FRnet (two-wire cable; can be up to 400 m)

Please refer to page 8-7 MagicWire and FR I/O for detail information

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ISA Isolated DIO Board

ISO-P32C32/P64/C64

64-channel isolated DI/O board



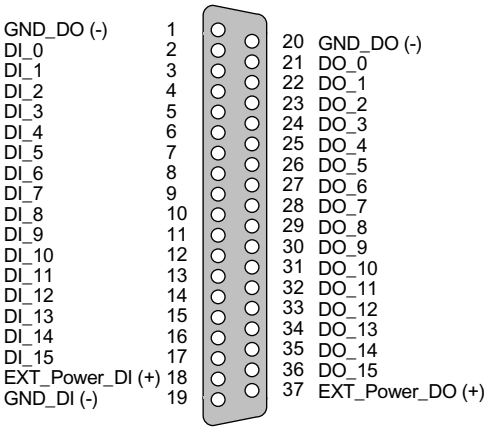
ISO-P64



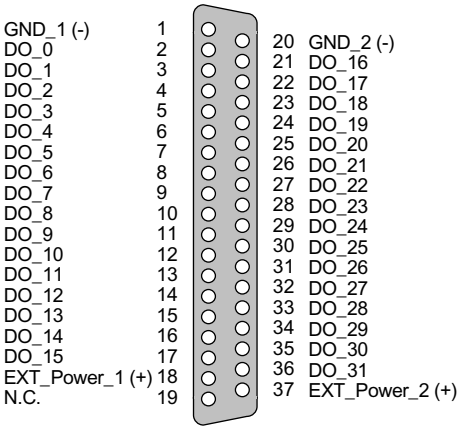
ISO-C64

Pin Assignment

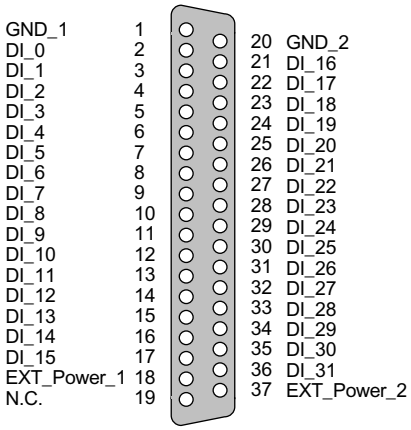
ISO-P32C32



ISO-C64



ISO-P64



Ordering Information

Standard

ISO-P32C32:	32-channel isolated digital input and 32-channel isolated open-collector output board
ISO-P64:	64-channel isolated digital input board
ISO-C64:	64-channel isolated digital output board

Optional

DN-37:	2x37-pin connector DIN-rail mounting terminal board
DB-37:	37-pin D-sub directly connector terminal board
DB-16P16R:	16-channel of input terminal and 16-channel of relay output daughter board (For ISO-P32C32)
DB-32R:	32-channel of relay output daughter board (For ISO-C64)

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