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TECHNOLOGY GROUP

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Full-service, independent repair center
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Custom engineering
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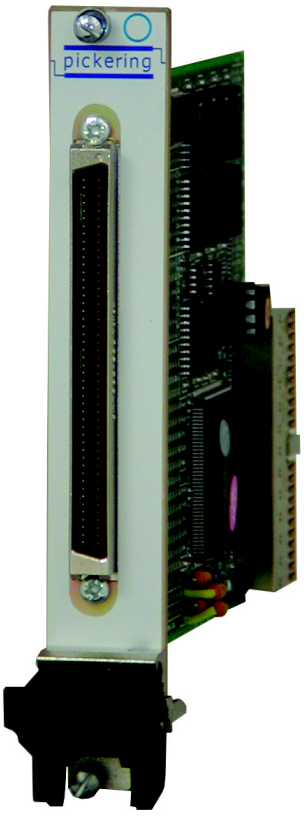
Expert team | Trust guarantee | 100% satisfaction

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Find the *Pickering 40-410-001* at our website: ***Click HERE***

40-410
Digital I/O Card

- Digital I/O 32 Bits Out, 32 Bits In, TTL or Transistor
- Programmable By Bit, Byte or Word
- TTL Outputs Suitable for Driving External Logic
- Open Collector Transistor Outputs Suitable for Driving Internal or External Relay Coils
- Operating Speed < 1ms
- Drivers Supplied for Win 95/98/2000/NT
- Complies with PXI and CompactPCI Specifications

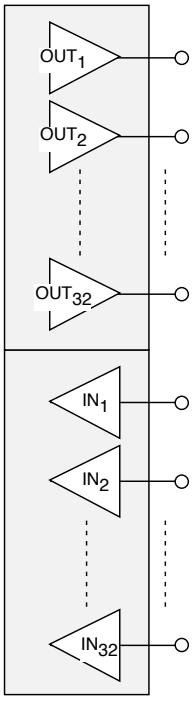


The 40-410 range of Digital I/O Modules are suitable for operating external devices, such as heavy duty relays (power, RF and high voltage types), solenoids, lamps etc., or for interfacing with external logic, e.g. a programmable instrument with a BCD interface.

Two choices of output drive are available: TTL for interacting with external logic and Open Collector Transistor for operating external devices with voltages to 50V d.c. and currents to 500mA.

Writing and reading can be done at bit, byte or word level to simplify programming effort. Applications include generating control signals, stimulus and sensing status from digital devices.

If you would like to build you own circuitry into a digital I/O card then please look at our 40-220 Breadboard Module.



Digital I/O Capabillity Of The 40-410

Power Requirements

Power consumption from the 5V backplane supply is as follows: 0.9W + 0.25W from User 5V.

Width and Dimensions

Single slot 3U PXI (CompactPCI card).

PXI and CompactPCI Compliance

All Pickering Interfaces PXI cards comply with the PXI Specification 2.0 (issued Aug 2000). Local Bus, Interrupts, Trigger Bus and Start Trigger are not implemented.

Supplied driver software is fully Windows 95/98/2000 and NT 4 compatible.

Connectors

PXI bus via 32 bit P1/J1 backplane connector.

Signals via front panel mounted 96 Way connector.

Extender Card

Third-party backplane extender cards are available to assist in construction and debugging of your custom circuit. Please visit our website for further information on this and other PXI accessories.

TTL Output Driver

Maximum drive	15 TTL inputs
Max Voltage	7V
Max Current Drive	Sink 8mA, Source 0.4mA
Operate/Release Time	< 1ms

Open Collector Transistor

Driver I.C.	ULN2803LW, Open Collector Driver
Maximum Standoff Volts	50V
Max Power per O/P	1.0W
Max Power per byte	1.6W
Max Current Drive	500mA.
Operate/Release Time	< 1ms

Digital Input (All Models)

Maximum Standoff Volts	7V
Nominal True voltage	> 2.0V
Nominal False voltage	< 0.8V

Data is strobed when the read operation executes.

Note: Care must be taken when interfacing the 40-410 module with external circuits which may produce high voltage spikes or RF interference. Additional noise protection may be required, please contact Pickering if you wish to discuss your requirement.

Product Order Codes

Digital I/O Card	
32In/32 Out (TTL)	**40-410-001**
32In/32 Out (Open Collector)	**40-410-002**
Mating Connectors	
96 Way Female Connector suitable for use with IDC ribbon cable. Custom cable assemblies made to order.	**40-961-096**

Latest Details

Please refer to our Web Site for Latest Product Details.

www.pxi-switch.com

Pickering Interfaces maintains a commitment to continuous product development, consequently we reserve the right to vary from the description given in this data sheet.
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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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