



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

## PCI Multifunction Board

**PC Based I/O Boards**  
Satisfy you with  
one stop shopping  
Start your tour now

Simple Slice, Unlimited Possibilities

RoHS

The advertisement features a blue background with a diagonal line of various green PCI I/O boards. To the left, there is a white feather and its shadow. The text 'PC Based I/O Boards' is in large, bold, black letters. Below it, the phrases 'Satisfy you with one stop shopping' and 'Start your tour now' are in a smaller font. At the bottom left, the slogan 'Simple Slice, Unlimited Possibilities' is written. In the bottom right corner, there is a green circular logo with a white checkmark and the text 'RoHS'.

Peripheral Component Interconnect, also called PCI, is a local computer bus for attaching hardware devices in a computer. PCI is a standard bus in most of the desktop computers. Devices connected to the PCI bus appear to a bus master to be connected directly to its own bus and are assigned addresses in the processor's address space. PCI Express (PCIe) is a computer expansion card standard. A key difference between PCIe and earlier PC buses is a topology based on point-to-point serial links, rather than shared parallel bus architecture. Conceptually, the PCIe bus can be thought of as a 'high-speed serial replacement' of the older PCI/PCI-X bus.

ICP DAS has over 132 kinds of PCI board in one stop shopping. These boards not only cover from ISA to PCI bus that you would have often seen on your PC but even support PCI Express. From hundreds of board, taking PCI bus boards for example; they are sorted into four series: PCI, PISO, PEX, and PIO series. PCI series are top-of-the-line ones that reach awesome performance with multiple functions and high resolutions; PISO series are putting emphasis on its protection ability to prevent signal input from direct impact; PIO series are cost-effective ways for general use, and moreover, they are well-suited for high-speed transmission applications.

All the I/O boards are widely applied in various fields of automation systems. In brief, digital I/O boards are for monitoring and controlling logic signals such as button, switch, relay, on/off,



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high/low and open/close conditions, analog I/O boards are for analog signals acquisition or transmitting application, and the timer, counter and frequency boards are for pulse signals measurements. Memory boards are so unique that you can find them only in ICP DAS. With two Lithium-polymer batteries, data can be preserved for 10 years. Gambling machines in the casino are the main application of our memory boards. Besides, with aid of daughter boards, each board we have mentioned above is highly expandable.

Digital Input and output board is the most demanding board for industrial data acquisition. Let take PEX-P32C32 as an example, it has 32-channel Optically Isolated Digital Input and 32-channel Optically Isolated Digital Open-collector output. This is the perfect fit to read status from machines and write digital output to turn on/ off units. High number of channels count minimize the number of board requires on a computer. It is also added a Card ID switch. Users can set Card ID on a board and recognize the board by the ID via software when using two or more PEX-P32C32 and PIO-P32C32U/P32C32U-5V cards in one computer.



**PISO-P32C32U**



**PEX-P32C32**

All PCI cards support various OS versions, such as Linux, DOS, Windows 98/NT/2000 and 32/64-bit Windows 8/7/Vista/XP. DLL and Active X control together with various language sample programs based on Turbo C++, Borland C++, Microsoft C++, Visual C++, Borland Delphi, Borland C++ Builder, Visual Basic, C#.NET, Visual Basic.NET and LabVIEW are provided in order to help users quickly and easily develop their own applications.

<https://www.icpdas-usa.com/pcidataacquisition.php>

If you have other industrial communication requirements or have questions, we can certainly help you to choose the best solution. Please call our technical support team at (310) 517-9888 X102