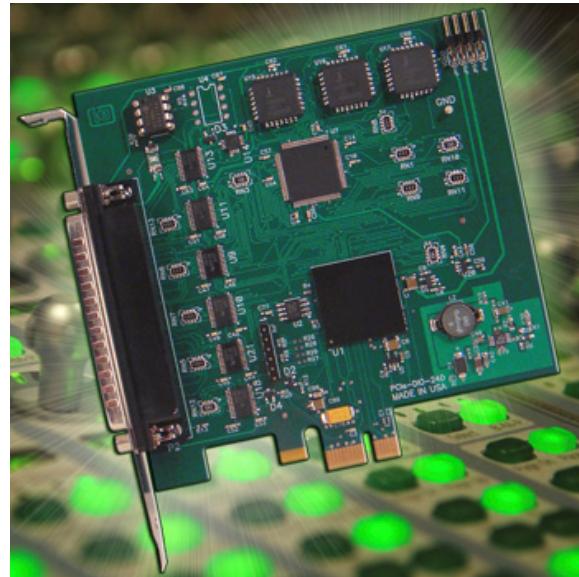


## FEATURES

- 24 high-current DIO lines
- Three optional 82C54 Counter/Timers
- IRQ generation from Port C bit 3, Counter A2 (“C” models) or Change of State (COS) Detection (“S” models)
- DIO lines buffered
- Four and eight bit ports independently selectable for inputs or outputs
- Software selectable 10k ohm Pull-up/Pull-down resistors on DIO lines
- Jumper selectable VCCIO (5V, 3.3V, 2.5V, 1.8V)
- VCCIO voltage available to the user via 0.5A resettable fuse

## FACTORY OPTIONS

- Extended temperature operation (-40° to +85°C)



## FUNCTIONAL DESCRIPTION

This product is a x1 lane PCIe DIO board available in four models ranging from basic DIO to advanced COS detection and Counter/Timer capabilities. The card emulates an 8255 compatible chip, providing 24 DIO lines. The DIO lines are grouped into three 8-bit ports: A, B, and C. Each 8-bit port is configured via software to function as either inputs or outputs. Port C can be further broken into two 4-bit nybbles via software and configured as either inputs or outputs.

Each DIO line is buffered and capable of up to 32mA source/sink. The VCCIO logic level is globally configured via jumper selection as 5V, 3.3V, 2.5V or 1.8V. Also, ports A, B, C low nibble, and C high nibble are individually software selected as pull-up or pull-down through 10kΩ resistor networks. The last configured pull-up/down state is stored in on-board non-volatile memory and automatically applied at the next power up. The board is shipped factory default as pulled-up.

The card is 6.6 inches in length and 4.2 inches seated height. I/O wiring connections for this board are via a male 37-pin D-sub connector. A ribbon cable can be used to connect this card to termination panels.

## ACCESSORIES

ADAP37	CAB37-XX	STA-37	T-BOX	STB-37	DIN-SNAP-6
DB37F screw terminal board plugs directly onto the card's I/O connector	Ribbon Cable Assy, XX=length in inches	Screw terminal board mounted on standoffs with bread-board area	Metal enclosure with powder coated finish, use to mount STA-37 to panel	Screw terminal board, ships with standoffs but can also mount on SNAP-TRACK or DIN-SNAP	SNAP-TRACK for DIN-rail mounting one STB-37

## SOFTWARE

The card is supported for use in most operating systems and includes a free DOS, Linux, and Windows 2000/XP/2003/Vista/7 compatible software package. This package contains sample programs and source code in Visual Basic, Delphi, and Visual C++ for Windows. Also provided is a graphical setup program in Windows. Linux support includes installation files and basic samples for programming from user level via an open source kernel driver. Third party support includes a Windows standard DLL interface usable from the most popular application programs. Embedded OS support includes Windows XPe.

