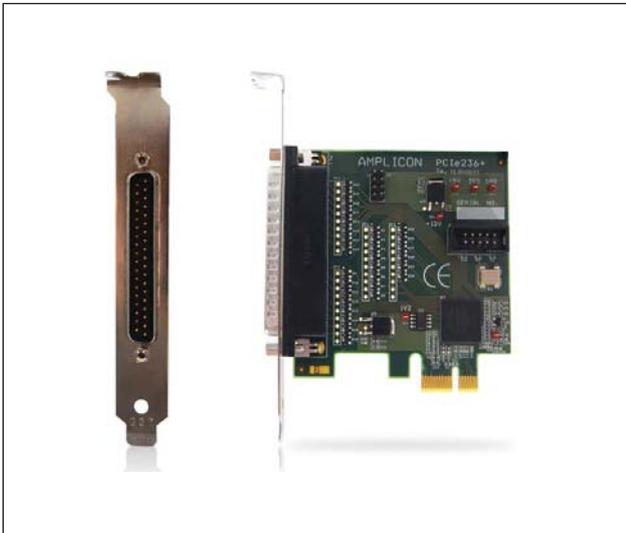


AMPLICON PCIe236



Features

- x1 PCI Express interface
- 24 lines flexible programmable digital I/O
- Three 16-bit counter/timers
- Interrupt controlled operations
- Windows 7 / Vista / XP / 2000 / 2003 OS
- Drivers for C#, VB/VB.NET, Delphi, Agilent VEE, and LabVIEW
- Compact, half-size PCB

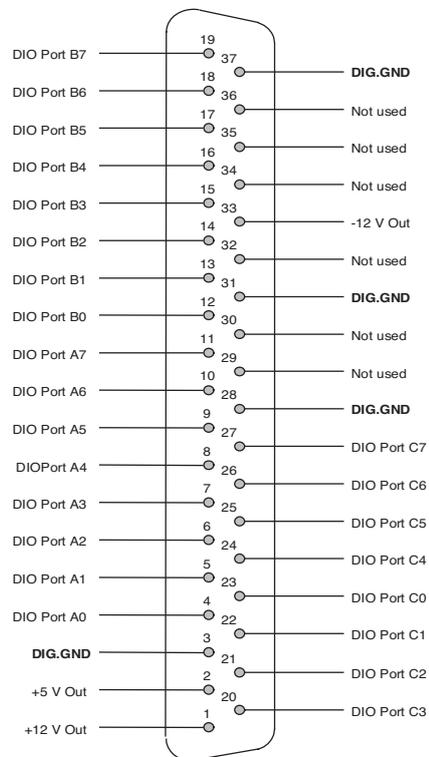
Description

Amplicon's PCIe236 card is a 24 digital input/output (DIO) card designed for industrial applications. The PCIe236 emulate a single 82C55 Programmable Peripheral Interface (PPI) chip which can be configured by user software to operate in a variety of modes and two 82C54 counter timers (CTCs) chips which occupy clusters Z1 & Z2. The board is suitable for use in any PC that supports PCIe Bus version 2.1.

The digital I/O facility of the PCIe236 provides all 24 lines on three 8 bit ports, labeled DIO Port A0 - A7, DIO Port B0 - B7 and DIO Port C0 - C7. These ports are further divided into two groups of 12 bits each, group A comprising the 8 bits of port A and the high order 4 bits of port C, and Group B comprising the 8 bits of port B and the low order 4 bits of port C.

The PCIe236 may be used in 64-bit & 32-bit Windows operating environments. Drivers are available for all popular high-level programming languages. The Amplicon programming library AMPDIO32 provides example programs with source code which can be modified as required.

PCI236 37-way connector



AMPLICON PCIe236

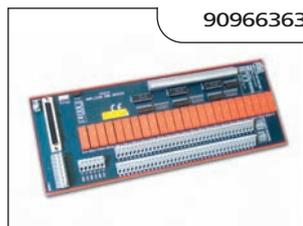
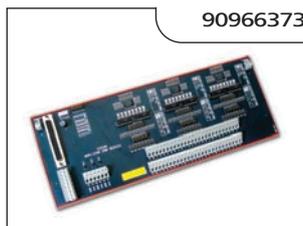
Specifications

Digital input/output	
Digital I/O	One 82C55 chips with 24 TTL compatible lines
Digital inputs	Low: -0.3V to +0.8V High: +2.2V to +50V
Digital outputs	Low: +0.4V max at 2.5mA High: +3.0V min at -2.5mA +50V max with external PSU
Interrupt sources	4 interrupt sources available in total
Counter/Timer	
Counter/timer	Two 82C54 counter/timers each with three 16-bit counters
Counter/timer functions	Interrupt control, count down, stopwatch, frequency/ period measurement, frequency generation, square wave output, PWM output and others
Counter outputs	Low output voltage: +0.4V max at +2.5mA. High output voltage: +3.0V min at -2.5mA
Ext. clock/gate input	Low: -0.3 to +0.8V High: +2.2 to +50.0V

General	
Connector	37-way male D-sub
Dimensions	80 x 80mm (Length x Height)
PC interface	PCIe bus version 2.1, 3.3V
Operating temp.	0 to +60°C
Storage temp.	-20 to +70°C
Humidity	5 to 95% RH, non-condensing
Power requirements	3.3Vdc @ 160mA, fully loaded
MTBF	524,976 hours
Compliance	CE, EMC EN55022, EN55024

Accessories and Ordering information

- 96113253** PCIe236 Digital I/O board, PCIe
- 90891950** Screw terminal adapter with female 37 way connector, DIN rail mounting
- 91014890** ACL-10137-1 MF Screened cable, 37-way male D to female D
- 90966373** EX230 input panel with 24 isolated common & contact closure inputs
- 90966363** EX213 output panel with 24 relays/isolated logic



Sales: +44 (0) 1273 570 220 Admin: +44 (0) 1273 608 331 Fax: +44 (0) 1273 570 215 Website: www.amplicon.com Email: sales@amplicon.com