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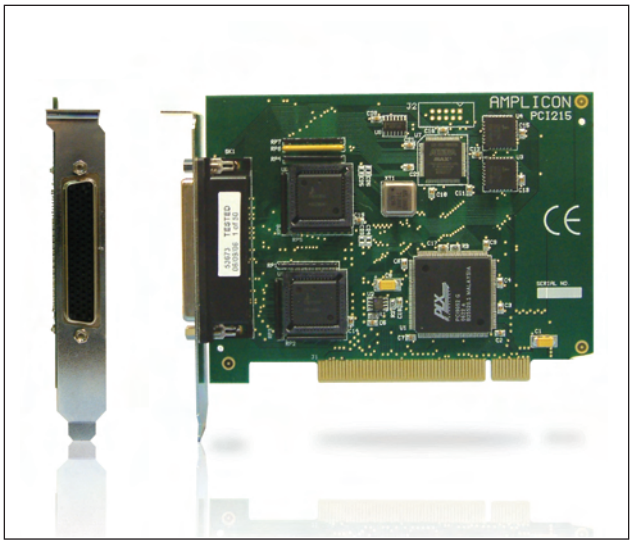
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AMPLICON PCI215



Features

- 48 lines of TTL compatible digital I/O
- Six 16-bit counter/timers
- 32-bit 5V PCI compatible
- Interrupt controlled operation
- External termination panels available
- High density 78-way D connector
- Windows 95, 98, NT, 2000, XP, 2003 and Vista Support
- Drivers for C/C++, VB.NET, Delphi, VEE & LabVIEW

Description

General
The PCI215 is a digital I/O board that provides 48 lines of parallel digital input/output and six 16-bit counter/timers. The board can be used on any PC that supports PCI bus version 2.1 to monitor and control an external device.

The PCI215 is powered by the 5V supply from the host PC and this supply rail is also available for external use via the I/O connector

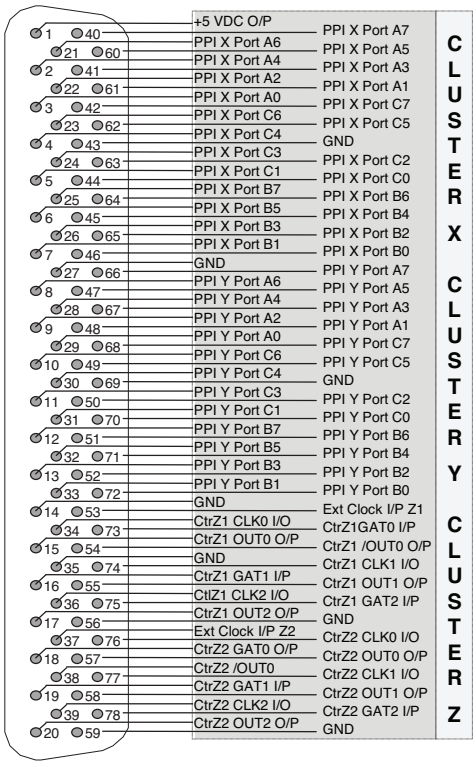
Digital I/O
The PCI215 has two 82C55 Programmable Peripheral Interface (PPI) chips, each having three 8-bit ports (A, B and C). Port C can be split into two 4-bit ports. Each port can be configured for inputs or outputs by writing to the control register of the 82C55.

Digital I/O Expansion
The 48 lines of digital I/O can be connected externally to the Amplicon EX200 range of digital I/O signal conditioning panels, providing relay outputs and isolated inputs

Counter Timers
The PCI215 has two 82C54 counter timers each with three channels. All timing operations are under the control of a 10MHz crystal clock source. This source is used internally and can be divided down for connection to each of the 82C54's channels. The clock input to the counter/timer can also be configured for an external clock source.

Software support
The PCI215 may be used in 32-bit Windows or Linux 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.

PCI215 78-way connector



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AMPLICON PCI215

Specifications

Digital input/output	
Digital I/O	Two 82C55 chips with 24 TTL compatible lines
Digital inputs	Low: -0.3V to +0.8V High: +2.2V to +5.3V
Digital outputs	Low: +0.4V max at 2.5mA High: +3.7V min at -2.5mA
Interrupt sources	6 interrupt sources available in total, two per 82C55 and one per 82C54
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: +3.7V min at -2.5mA
Ext. clock/gate input	Low: -0.3 to +0.8V High: +2.2 to +5.3V

General	
Connector	78-way female D-sub
Dimensions	144 x 108mm (Length x Height)
PC interface	PCI bus version 2.1, 5V
Operating temp.	0 to +60°C
Storage temp.	-20 to +70°C
Humidity	5 to 95% RH, non-condensing
Power requirements	5Vdc @ 300mA, fully loaded
MTBF	1274 khours
Compliance	CE, EMC EN55022, EN55024

Accessories and Ordering information

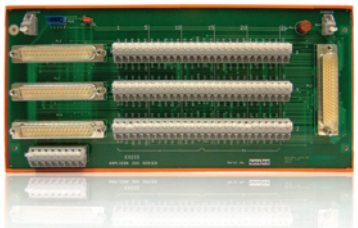
Images are for illustration purposes only

96003513 PCI 215 digital I/O 48 channels and 6 counter timers PCI board
90966333 EX233 termination and distribution panel
90966349 Cable 1m long screened 78 way for use with EX233 panel and 200 series DIO boards
90966373 EX230 input panel with 24 isolated common & contact closure inputs
90966363 EX213 output panel with 24 relays/isolated logic
91014890 ACL-10137-1 MF Screened cable, 37-way male D to female D

96003513



90966333



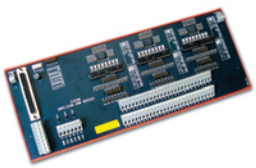
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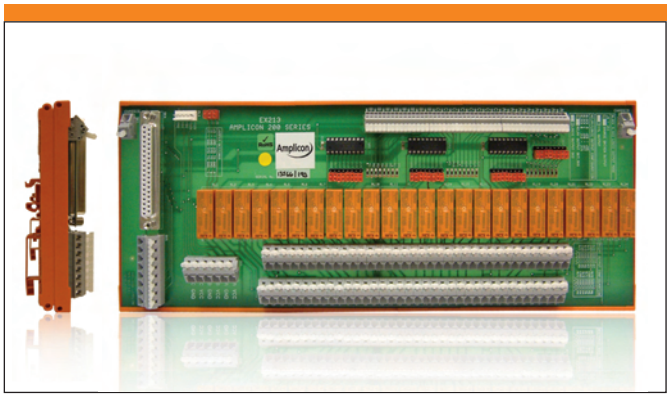


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EX200 Series



Features

- DIN rail or bench mounting
- Easy clamp terminals for our PCI200 series digital I/O boards
- Isolated input protection
- Isolated outputs/ relays
- 'Mix and match' panels to build the connection system for you

Description

The EX200 range of digital termination panels has been developed for connection of signals to the PCI236, PCI272 and PCI215. Three termination panels are available, and may be used in various combinations or individually, depending on whether isolation is required or not.

EX233 termination panel
The EX233 is a termination panel that provides 78 terminals for connection of external signals. A 78-way connector enables connection via an appropriate cable assembly, to either PCI272 or PCI215 digital I/O boards. It also has three 37-way connectors allowing distribution of input/ output signals, or connection to an isolation panel detailed below.

EX230 isolated input panel
The EX230 is a 24 line interface panel that provides isolation and protection from digital input signals. The EX230 may be connected directly to the PCI236 digital I/O board (via a cable), or to one of the three 37-way connectors on the EX233.

All inputs can be configured on a channel by channel basis. The following jumper selections can be made:

- An opto-isolated input with 2 ranges:
Low range: -5.0 to +1.5V = Low, and +4 to +20V = High.
High range: -15 to +2.0V = low, and +10 to +50V = high.

- Volt free contact closure input which uses the +5V supply onboard to detect a contact closure and like all the other input modes requires no external power.

EX213 relay/ isolated output panel
The EX213 is a 24 line interface panel that provides isolation or higher switching capability for digital outputs. The EX213 may be connected directly to the PCI236 digital I/O board (via a cable), or to one of the three 37-way connectors on the EX233.

There are independent terminal groups for relay and logic outputs and all outputs can be configured on a channel by channel basis. The following jumper selections can be made:

- Isolated relay output with changeover contact. This is rated for 8A at 30Vdc, or 49Vac.

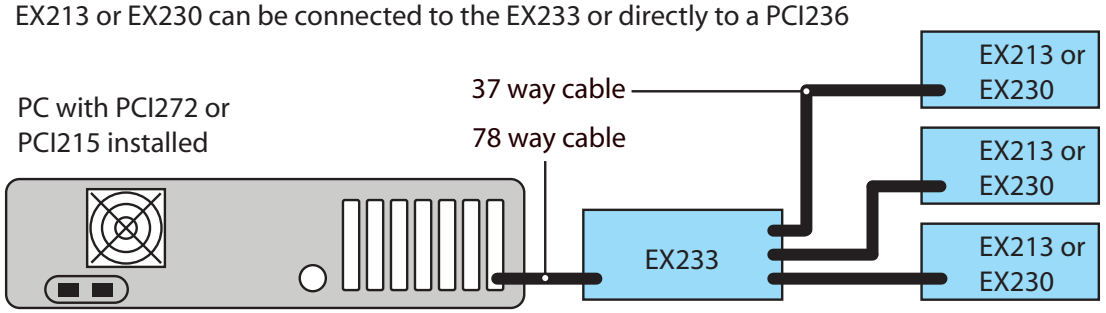
- Isolated High level logic output with source drivers that can source up to 100mA for 90% duty cycle on all 24 lines.

- Non-isolated TTL outputs on port A (8-bits).

The outputs are in groups of 8, each of which may be independently powered by a 24Vdc supply. Alternatively they can share one 24V supply but either way external power is required. EX233 has terminals for introducing a common 24V power supply for the EX213 and EX221.

Schematic diagram

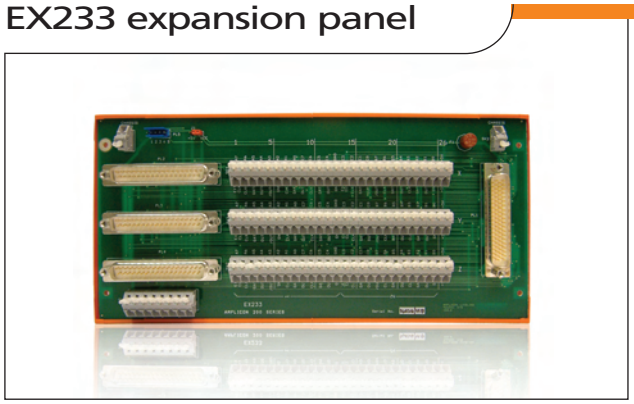
EX213 or EX230 can be connected to the EX233 or directly to a PCI236



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EX200 Series

EX233 expansion panel

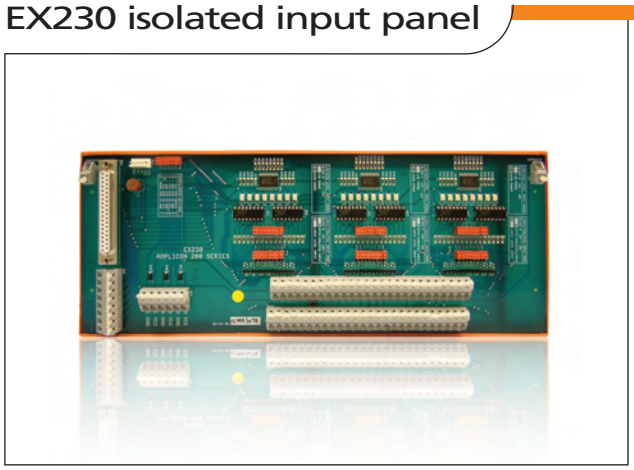


Specifications	
Board interface	78-pin male D-sub
Wiring termination	Spring loaded terminals
Expansion interface	Three 37-pin male D-sub
Dimensions	267 x 126 x 42mm (width x depth x height)
Mounting	DIN rail or bench top

Ordering information

90966333 EX233 termination and distribution panel
90966349 Cable 1m long screened 78 way for use with EX233 panel and 200 series DIO boards
91014890 ACL-10137-1 MF Screened cable, 37-way male D to female D

EX230 isolated input panel

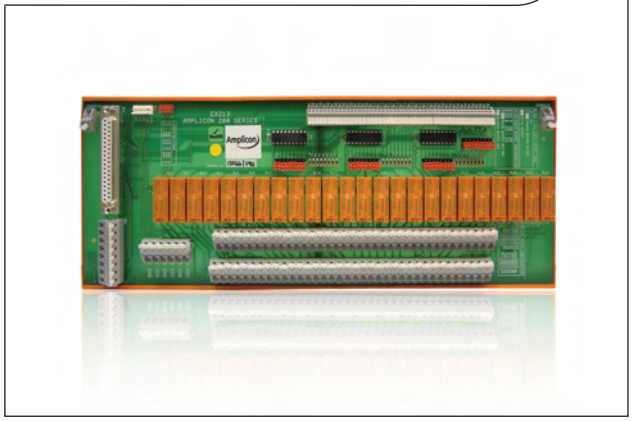


Specifications	
Opto-isolated low range	Low or '0': -5.0 to +1.5V High or '1': +4 to +20V
Opto-isolated high range	Low or '0': -15 to 2.0V High or '1': +10 to +50V
Volt free contact	Low or '0': -1.0 to +1.5V High or '1': +2.0 to +5.0V
Wiring termination	Spring loaded terminals
Connector	37-way female D-sub
Dimensions	320 x 126 x 42mm (width x depth x height)

Ordering information

90966373 EX230 input panel, 24 isolated common & contact closure inputs
91014890 ACL-10137-1 MF Screened cable, 37-way male D to female D

EX213 Relay / isolated outputs



Specifications	
Number of relays	24 SPDT
Contact rating	30Vdc or 49Vac @ 8A
Opto-isolated output	Low or '0': +0.7V High or '1': +23V
Non-isolated outputs	TTL on Port A only, selectable
Max current source	100mA/ channel for 90% duty
Wiring termination	Spring loaded terminals
Connector	37-way female D-sub
Dimensions	320 x 126 x 42mm (width x depth x height)
Power requirements	24Vdc

Ordering information

90966363 EX213 output panel with 24 relays/isolated logic
91014890 ACL-10137-1 MF Screened cable, 37-way male D to female D

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