

## Dual Port ISA Serial Boards With or Without Isolation

### PC 240 H

Registered  
**ISO 9001**  
Company

- Two serial ports with flexible independent addressing
- Use interrupts 3,4,5,7,10,11,12, 15
- Shared interrupt facility allows multiple serial ports on the same interrupt
- 9 pin connector on RS485 ports user configurable
- Slew rate limited transmitters improve EMC
- ESD protected devices on all serial data and control lines
- Test software and an evaluation of COMBIOS supplied with each board
- RS232, RS422 and RS485 ports in pairs or mixed on one board
- Opto-isolated versions for highest integrity
- 1M baud data transfer rates
- RS485 boards multidrop to 256
- Internal biasing for system protection
- 128 character FIFO on each port

This comprehensive range of ISA bus dual port serial boards offers all the features required by today's demanding professional communications environment.

#### Shared interrupts

The shared interrupt facility allows both channels to use one PC interrupt or share interrupts with ports on other Amplicon 240 Series serial boards.

This unusual feature removes the risk of running out of available interrupt lines when developing more complex systems.

#### Three port isolation on i versions

There is an i version of each board which has 75V three port opto-isolation on the serial data and control lines. This means that each port is isolated from the other and the PC.



PC248H



PC248Hi



DESCRIPTION	PRODUCT CODE
PC247H dual port RS232 high speed	909 864 43
PC247Hi isolated dual port RS232 high speed	909 864 53
PC248H dual port RS485 high speed	909 864 63
PC248Hi isolated dual port RS485 high speed	909 864 73
PC249H RS232 & RS422/485 board high speed	909 864 83
PC249Hi isolated RS232 & RS422/485 board high speed	909 864 93

#### Other important features

RS485 turnaround, when used in half duplex, is controlled by RTS. This allows the ports to be used with some existing RS232 communications software without modification.

The H range supports RS485 transmission turnaround. Transmission on the bus is enabled whenever the board has some data to transmit. This means that when operating with the appropriate device drivers, application software written to communicate over RS232 on non-multidrop networks can be directly connected to RS485 multidrop systems.

#### Manual

Manuals and software supplied on CD ROM.

#### SPECIFICATION

Isolation of 'i' versions	75Vpk (250Vpk under fault conditions)
ESD on chip protection	RS232 10kV, RS422/485 2kV
FIFOs	16 byte for receive and transmit 'H' version 128 byte for receive and transmit
Interrupts	switch selected to IRQ 3, 4, 5, 7, 10, 11, 12 & 15 two or more ports can share one interrupt
Baud rates	programmable 50 to 115.2k baud 'H' version 50 to 1M baud
Data bits	5, 6, 7 or 8
Stop bits	1 or 2
Parity	Even, odd or none
Size	157mm x 99mm (half length)
Power	5V @ 450mA max
Temperature	0 to 60°C operating -20 to 70°C storage
Connectors	metal shell D type connectors, shell grounded to PC chassis
Compliance	CE EMC