



# Universal PCI Serial Boards

*The perfect solution for adding multiple high-speed serial ports to any PC, Server, Thin Client or Embedded System*

Quatech Low Profile PCI boards provide truly universal connectivity, enabling a single product to be used to implement systems with dramatically different resource requirements. This makes Quatech boards the most robust, most flexible, and most economical choice for any application requiring multiple serial ports.

Quatech boards use a universal PCI connector compatible with both the 3.3V connector key required by the PCI 2.3 specification and the 5V connection used by older systems. They are designed on the smallest MD1 Low Profile footprint, but come with both a full size ORB for standard systems, and a smaller ORB for use in Low Profile backplanes to fit even 2U racks without riser cards. In addition, our wide range of OS options facilitates both system upgrades and multiplatform installations.

- One, two or four independent serial ports
- RS-232 or RS-422/485 boards
- Auto enable/disable RS-422/485 transmitter
- Universal PCI connector, 3.3V and 5V
- MD1 Low Profile PCI board (fits 2U racks)
- Speeds up to 921.6 kbps
- Standard 16550 UARTs with 16-byte FIFOs
- All ports share a single PCI interrupt
- Plug & Play
- Win. 95/98/Me/NT/2000/XP, LINUX, OS/2
- Five year warranty

**QUATECH**

[www.interwld.com](http://www.interwld.com)

## RS-232 Board Specifications

**Bus Interface:** 32-bit, 33 MHz PCI Bus specification 2.3 compliant

**OS Support:** Windows 95/98/Me/NT/2000/XP, Linux, OS/2, DOS

**Data Rate:**

**SSCLP/DSCLP:** 460.8 kbps (max)

**QSCLP:** 921.6 kbps (max)

**Serial Ports:** **SSCLP:** 1 **DSCLP:** 2 **QSCLP:** 4

**UARTs:** 16550 UARTs with 16-byte FIFOs (1 per port)

**Transceiver:** ICL3245CA or compatible

**Drivers:**

**High Level Output:** +5V (min), +5.4V (typ)

**Low Level Output:** -5V (min), -5.4V (typ)

**Transition Time (THL-TLH):** 25ns (typ)

**Receive Buffers:**

**Voltage Range:** -25V (max), -25V(min)

**Transition Time (THL-TLH):** 50ns (typ)

**Environment:**

**Operating:** 0°C to 70°C

**Storage:** -50°C to 80°C

**Humidity:** 10% to 90%

**Power Requirements:** 3.3V, 260mA (typ)

**Size:**

**MD1 Board:** 63.55mmH x 119.91mmW (fits 2U racks)

**Low Profile PCI Bracket:** 79.20mm H

(Standard PCI bracket also included)

**Connectors:**

**SSCLP:** DB-9 male

**DSCLP:** DB-25 male or cable with 2 DB-9 male

**QSCLP:** DB-44 male or cable with 4 DB-9 male

**Certifications:** CE, FCC Class B

**Ordering Information:**

**SSCLP-100:** One port RS-232 board

**DSCLP-100:** Two port RS-232 board with cable

**QSCLP-100:** Four port RS-232 board with cable

## RS-422/485 Board Specifications

**Bus Interface:** 32-bit, 33 MHz PCI Bus specification 2.3 compliant

**OS Support:** Windows 95/98/Me/NT/2000/XP, Linux, OS/2, DOS

**Data Rate:** 460.8 kbps (max)

**Serial Ports Provided:** **SSCLP:** 1 **DSCLP:** 2

(each configurable as RS-422 or RS-485 for full or half duplex)

**UARTs:** 16550 UARTs with 16-byte FIFOs (1 per port)

**Transceiver:** SP3491 or compatible

**Drivers:**

**Differential Voltage:**  $\pm 3.3V$

**Transition Time (TLH):** 52ns (typ)

**Transition Time (THL):** 60ns (typ)

**Receive Buffers:**

**Differential Input Threshold:**  $\pm 0.2V$

**Voltage Range:** -7V to +12V Common Mode Input

**Transition Time (THL-TLH):** 65ns (typ)

**Environment:**

**Operating:** 0°C to 70°C

**Storage:** -50°C to 80°C

**Humidity:** 10% to 90%

**Power Requirements:** 3.3V, 260mA (typ)

**Size:**

**MD1 Board:** 63.55mmH x 119.91mmW (fits 2U racks)

**Low Profile PCI Bracket:** 79.20mm H

(Standard PCI bracket also included)

**Connectors:**

**SSCLP:** DB-9 female

**DSCLP:** DB-25 female or cable with 2 DB-9 female

**Certifications:** CE, FCC Class B

**Ordering Information:**

**SSCLP-200/300:** One port RS-422/485 board

**DSCLP-200/300:** Two port RS-422/485 board with cable



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