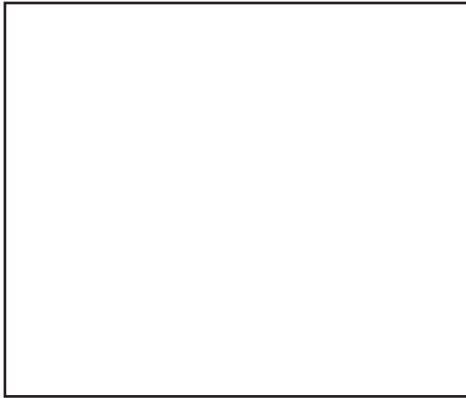


# Universal PCI Serial Boards

## RS-232 and RS-422/485

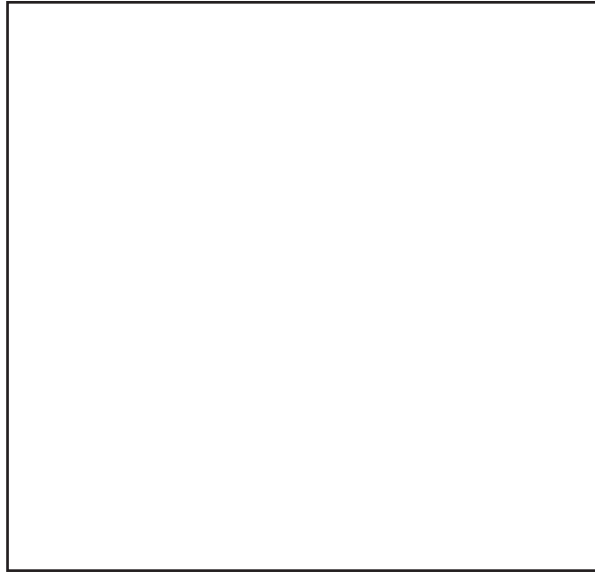
SSCLP-xxx, DSCLP-xxx, QSCLP-xxx, ESCLP-xxx



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 and later 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.



### Model Selection Guide

| Model No.                    | Ports | Interface |            | Connector | RoHS Compliant |
|------------------------------|-------|-----------|------------|-----------|----------------|
|                              |       | RS-232    | RS-422/485 | DB-9      |                |
| SSCLP-100                    | 1     | X         |            | X         | X              |
| SSCLP-200/300                | 1     |           | X          | X         | X              |
| DSCLP-100                    | 2     | X         |            | X         | X              |
| DSCLP-200/300                | 2     |           | X          | X         | X              |
| QSCLP-100                    | 4     | X         |            | X         | X              |
| QSCLP-200/300                | 4     |           | X          | X         | X              |
| ESCLP-100                    | 8     | X         |            | X         | X              |
| *Surge suppression available |       |           |            |           |                |

| RS-232 Board Specifications |  | RS-422/485 Board Specifications |   |
|-----------------------------|--|---------------------------------|---|
| <b>Bus Interface</b>        | 32-bit, 33 MHz PCI Bus specification 2.3 compliant   | <b>Bus Interface</b>            | 32-bit, 33 MHz PCI Bus specification 2.3 compliant  |
| <b>OS Support</b>           | Windows 95/98/Me/NT/2000/XP/Vista/7, Linux, OS/2, DOS  | <b>OS Support</b>               | Windows 95/98/Me/NT/2000/XP/Vista/7, Linux, OS/2, DOS   |
| <b>Data Rate</b>            | 921.6 kbps (max)   | <b>Data Rate</b>                | 921.6 kbps  |
| <b>Serial Ports</b>         | SSCLP: 1<br>DSCLP: 2<br>QSCLP: 4<br>ESCLP: 8   | <b>Serial Ports</b>             | SSCLP: 1<br>DSCLP: 2<br>QSCLP: 4<br>(each configurable as RS-422 or RS-485 for full or half duplex)                               |
| <b>UARTs</b>                | S/D/QSCLP: 16550 UARTs; 16-byte FIFOs (1 per port)<br>ESCLP: 16750 UARTs; 64-byte FIFOs (1 per port)   | <b>UARTs</b>                    | SSCLP/DSCLP: 16550 UARTs; 64-byte FIFOs (1 per port)<br>QSCLP: 16750 UARTs; 64-byte FIFOs (1 per port)                            |
| <b>Transceiver</b>          | ICL3245CA or compatible  | <b>Transceiver</b>              | MAX3076E or compatible  |
| <b>Drivers</b>              | High Level Output:<br>+5V (min), +5.4V (typ)<br>Low Level Output:<br>-5V (min), -5.4V (typ)<br>Transition Time (THL-TLH): 25ns (typ)                               | <b>Drivers</b>                  | Differential Voltage: $\pm 3.3V$<br>Transition Time (TLH): 52ns (typ)<br>Transition Time (THL): 60ns (typ)                        |
| <b>Receive Buffers</b>      | Voltage Range: -25V (max), -25V(min)<br>Transition Time (THL-TLH): 50ns (typ)  | <b>Receive Buffers</b>          | Differential Input Threshold: $\pm 0.2V$<br>Voltage Range: -7V to +12V Common Mode Input<br>Transition Time (THL-TLH): 65ns (typ) |
| <b>Environment</b>          | Operating: 0°C to 70°C<br>Storage: -50°C to 80°C<br>Humidity: 10% to 90%   | <b>Environment</b>              | Operating: 0°C to 70°C<br>Storage: -50°C to 80°C<br>Humidity: 10% to 90%  |
| <b>Power Requirements</b>   | +5V, 260mA (typ)   | <b>Power Requirements</b>       | +5V, 260mA (typ)  |
| <b>Size</b>                 | MD1 Board: 63.55mmH x 119.91mmW (fits 2U racks)<br>Low Profile PCI Bracket: 79.20mm H (Standard PCI bracket also included)   | <b>Size</b>                     | MD1 Board: 4.725" x 2.5" (fits 2U racks)<br>Low Profile PCI Bracket: 3.118" H (Standard PCI bracket also included)                |
| <b>Connectors</b>           | SSCLP: DB-9 male<br>DSCLP: DB-25 male to cable with 2 DB-9 male<br>QSCLP: HD-44 female to cable with 4 DB-9 male<br>ESCLP: VHDCI-68 male to cable with 8 DB-9 male | <b>Connectors</b>               | SSCLP: DB-9 female<br>DSCLP: DB-25 female to cable with 2 DB-9 female<br>QSCLP: HD-44 female to cable with 4 DB-9 female          |
| <b>Certifications</b>       | CE, FCC Class B, RoHS and WEEE compliant   | <b>Certifications</b>           | Certifications: CE, FCC Class B, RoHS and WEEE compliant  |

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