Multiport Serial PCI Boards

The Features You Require And The Quality You Demand From The Industry's Most Reliable Serial PCI Manufacturer.

Serial connectivity is the backbone of many commercial and industrial applications such as POS networks, ATMs, banking teller stations, and CNC-based production lines. PCI is the de facto standard for board level expansion slots in PC-based systems.

Quatech PCI boards provide extensive choices for adding serial functionality to a system using minimal system resources. They also provide peace of mind. Quatech has specialized in quality data communication products for almost 20 years. We have a proven failure rate of only .002% after burn-in. And, Quatech's meticulously designed boards strictly adhere to the PCI specification, so you can be assured that our products will consistently function properly in your systems. Add to that our long five year warranty, and a customer service team that is dedicated to exceeding your expectations, and you truly have the industry's most reliable serial PCI boards.

- Two, four or eight independent serial ports
- RS-232 or RS-422/485
- Speeds up to 921.6 kbps
- Standard 16750 UARTs with 64-byte FIFOs
- Optional surge suppression package
- Full modem control and hardware and software flow control
- All ports share a single PCI interrupt
- DB-9, DB-25, or RJ-11 connectors
- 4-layer board design enhances signal integrity
- Plug & Play
- Win. 9x/Me/NT/2000/XP, Linux, OS/2, DOS
- Five year warranty

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RS-232 Board Specifications

Bus Interface: 32-bit, 33 MHz PCI Bus specification 2.2 compliant

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

Data Rate: 921.6 kbps (max)

Serial Ports: **DSC:** 2 **QSC:** 4 **ESC:** 8

UARTs: 16750 UARTs with 64-byte FIFOs (1 per port)

Drivers: SN75150 or compatible
- **High Level Output:** +5V (min), +8V (typ)
- **Low Level Output:** -5V (min), -8V (typ)
- **Transition Time (THL-TLH):** 30ns (typ) with 15 pF load

Receive Buffers: MC1489 or compatible
- **Voltage Range:** -13V to +13V
- **Transition Time (THL-TLH):** 120ns (typ)

IND Option: Surge suppressor applied to each line that is capable of sustaining up to 40A peak, 8 x 20µs transient surges, a clamping voltage of 30V and a peak energy dissipation of 0.1 Joules. **(NOTE: The "IND" option limits data rate to 115.2 kbps)**

Environment:
- **Operating:** 0°C to 70°C **Storage:** -50°C to 80°C
- **Humidity:** 10% to 90%

Power Requirements:
- **DSC:** 240mA (+5V), 10mA (±12V)
- **QSC:** 260mA (+5V), 35mA (±12V)
- **ESC:** 260mA (+5V), 35mA (±12V)

Size: **DSC/QSC:** 4.9" x 3.7" **ESC:** 6.4" x 4.5"

Connectors:
- **DSC-100:** 2 DB-9 male
- **QSC-100:** DB-37 female or cable with 4 DB-9 or 25 male
- **ESC-100D**: DB-78 female or cable with 8 DB-9 or 25 male
- **ESC-100M**: 8 RJ-11, optional cables convert to 8 DB-25 male
- **ESB-10:** ESC-100D breakout box option, 1 DB-25 & 7 DB-9

Certifications: CE, FCC Class B

Ordering Information:
- **DSC-100:** Two port RS-232 board with DB-9 connectors
- **QSC-100:** Four port RS-232 board with DB-25 cable
- **QSC-100-D9:** Four port RS-232 board with DB-9 cable
- **ESC-100D:** Eight port RS-232 board with DB-25 cable
- **ESC-100-D9:** Eight port RS-232 board with DB-9 cable
- **ESC-100M:** Eight port RS-232 board with RJ-11 connectors
- **ESB-10:** Breakout box option (ESC-100D /D9 only)
- **CP-RJ8:** Set of 8 RJ-11 to DB-25 male connectors
- **IND:** Surge suppression package option

RS-422/485 Board Specifications

Bus Interface: 32-bit, 33 MHz PCI Bus specification 2.2 compliant

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

Data Rate: 921.6 kbps (max)

Serial Ports Provided: **DSC:** 2 **QSC:** 4
(each configurable as RS-422 or RS-485 for full or half duplex)

UARTs: 16750 UARTs with 64-byte FIFOs (1 per port)

Transceiver: MAX491 or compatible

Drivers:
- **Differential Voltage:** +2V (min)
- **Transition Time (TLH):** 15ns (typ), 40ns (max)
- **Transition Time (THL):** 15ns (typ)

Receive Buffers:
- **Differential Input Threshold:** ±0.2V
- **Voltage Range:** -7V to +12V Common Mode Input
- **Transition Time (THL-TLH):** 15ns (typ)

IND Option: Surge suppressor applied to each line that is capable of sustaining up to 40A peak, 8 x 20µs transient surges, a clamping voltage of 15.5V and a peak energy dissipation of 0.1 Joules.
(NOTE: The "IND" option limits data rate to 115.2 kbps)

Environment:
- **Operating:** 0°C to 70°C **Storage:** -50°C to 80°C
- **Humidity:** 10% to 90%

Power Requirements: 320 mA (+5V)

Size: **DSC:** 5.0" x 3.7" **QSC:** 5.4" x 3.8"

Connectors: **DSC:** 2 DB-9 female
QSC: DB-37 female or cable with 4 DB-9 or 25 male

Certifications: CE, FCC Class B

Ordering Information:
- **DSC-200/300:** Two port RS-422/485 board w. DB-9 connectors
- **QSC-200/300:** Four port RS-422/485 board
- **CP-QS-D9:** Optional four port DB-9 male connector cable
- **CP-QS:** Optional four port DB-25 male connector cable
- **IND:** Surge suppression package option

Designed for Microsoft® Windows® XP

DSC-100 only

QUATECH
CONNECT WITH RELIABILITY

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