



Multiport Serial PCMCIA Cards

Industry Leading Speeds and Low Power Requirements

Quatech serial PCMCIA cards are a flexible low-cost interface choice for using portable serial peripherals such as GPS receivers, bar code scanners, printers, digital cameras and fax/modems with portable computers. They are also ideal solutions for a wide variety of applications including field data collection, industrial monitoring and control and office automation.

Our serial PC Cards are small, light, and have low power requirements to reduce battery drain. They come in a ruggedized case and have a convenient removable connector cable. Our Windows CE drivers enable the cards to be used in most popular handheld devices where ports are increasingly scarce.

Quatech serial PCMCIA cards provide industry leading speeds of up to 921.6 kbps by employing a clock multiplying feature in conjunction with 16750 UARTs. To further increase performance, we have created an auto toggle feature for the RS-422/485 transmitter that permits the hardware itself to regulate data flow by only driving lines while actively transmitting--providing increased speed and convenience over the older software controlled method.

- One, two or four independent serial ports
- RS-232 or RS-422/485 boards
- Auto enable/disable RS-422/485 transmitter
- Speeds up to 921.6 kbps
- Ruggedized case with removable cable
- One and two port RS-232 cards available with attached ruggedized cable.
- All ports share a single PCMCIA interrupt
- Plug & Play and Hot Swap capability
- Low power requirements
- Win. 9x/Me/NT/2000/XP/CE, Linux , OS/2
- Five year warranty

QUATECH
www.quatech.com

RS-232 Card Specifications

Bus Interface: 16-bit PCMCIA, Release 8 & backward compliant

OS Support: Windows CE/9x/Me/NT/2000/XP, Linux, OS/2

Data Rate:

SSP/DSP: 921.6 kbps (max)*

QSP: 115.2 kbps (max)*

* Actual baud rates can be affected by cabling and other factors

Ports:

SSP: 1 DSP: 2 QSP: 4

UARTs:

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

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

Transceivers:

SSP/DSP: 3254 or compatible **QSP:** SP211 or compatible

Drivers:

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

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

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

Receive Buffers:

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

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

Environment:

Operating: 0°C to 70°C

Storage: -50°C to 80°C

Humidity: 10% to 90%

Power Requirements:

SSP/DSP compatible with 3.3V & 5V systems, QSP 5V only

SSP: 20mA @ 5V (typ), 35mA (max)

DSP: 30mA @ 5V (typ), 45mA (max)

QSP: 45mA @ 5V (typ), 50mA (max)

Size: Type II PCMCIA Card package

Connectors:

SSP: Detachable cable with one DB9 male connector

SSPR: Attached cable with one DB9 male connector

DSP: Detachable cable with two DB9 male connectors

DSPR: Attached cable with two DB9 male connectors

QSP: Cable with four DB9 male connectors

Certifications: CE, FCC Class B

Ordering Information:

SSP-100: One port RS-232 card with cable

SSPR-100: One port RS-232 card with attached cable

DSP-100: Two port RS-232 card with cable

DSPR-100: Two port RS-232 card with attached cable

QSP-100: Four port RS-232 card with cable

RS-422/485 Card Specifications

Bus Interface: 16-bit PCMCIA, Release 8 & backward compliant

OS Support: Windows CE/9x/Me/NT/2000/XP, Linux, OS/2

Data Rate:

SSP/DSP: 921.6 kbps (max)*

QSP: 115.2 kbps (max)*

* Actual baud rates can be affected by cabling and other factors

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

SSP: 1 DSP: 2 QSP: 4

UARTs:

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

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

Transceiver:

SSP/DSP: 3491 or compatible **QSP:** LT491 or compatible
(Auto enable/disable of RS-422/485 transmitter on SSP/DSP)

Drivers:

Differential Voltage: ±3.3V

Transition Time (TLH): 52 ns (typ)

Transition Time (THL): 60 ns (typ)

Receive Buffers:

Differential Input Threshold: ±0.2V

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

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

Environment:

Operating: 0°C to 70°C

Storage: -50°C to 80°C

Humidity: 10% to 90%

Power Requirements:

SSP/DSP compatible with 3.3V & 5V systems, QSP 5V only

SSP: 20mA @ 5V (typ), 35mA (max)

DSP: 30mA @ 5V (typ), 45mA (max)

QSP: 45mA @ 5V (typ), 55mA (max)

Size: Type II PCMCIA Card package

Connectors:

SSP: Cable with one DB9 female connector

DSP: Cable with two DB9 female connectors

QSP: Cable with four DB9 female connectors

Certifications: CE, FCC Class B

Ordering Information:

SSP-200/300: One port RS-422/485 card with cable

DSP-200/300: Two port RS-422/485 card with cable

QSP-200/300: Four port RS-422/485 card with cable

