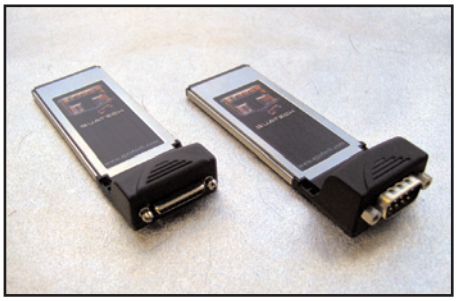
Serial & Parallel ExpressCards

SSPXP, DSPXP, QSPXP & SPPXP Series



Performance Line Technology
ExpressCard technology is emerging with faster speeds and better efficiency than the typical PCMCIA and PC Cards, connecting high-bandwidth peripherals to notebooks and other portables. The ExpressCard's credit-card like format gives way to a smaller, faster and more desktop-friendly format.

Gone are the days of laptops manufactured with PC Card slots and are swapped out with smaller, slimmer and thinner ExpressCard portals. Quatech's Serial ExpressCard line supersedes older technology and are engineered for new laptop models.

Quatech's ExpressCards are designed in the smallest form factor -34. ExpressCard 34 is compatible with all ExpressCard slots - 34/54.

Quatech's ExpressCard solutions accommodate I/O expansion and connectivity to serial and parallel devices in mobile laptop applications.

Available in one, two and four port serial configurations and one parallel port configuration, the ExpressCards offer easy-to-upgrade PC Card technologies, while integrating popular external peripheral functionality via ExpressCard module form-factor.

The PXP series was designed with a PCI Express (PCIe) interface rather than using USB controller interfaces.

Advantages of a PCIe-based ExpressCard design are in the interface to the laptop's motherboard. The PCIe bus interface is the successor to the PCI bus, which in turn was the successor to the ISA bus to which built-in ports were originally attached. As such, the ExpressCard adapter design utilizes a PCIe-based design and can still directly use I/O space addresses and interrupts, thus more closely emulating built-in ports than can be done via USB-based design. Moreover, because there's no USB stack for the drivers to contend with, throughput can be higher and latency will be lower (considerably so in many cases).

Due to improved data transfer rate, the ExpressCard is considerably more efficient for multi-tasking operations. The PXP series support data rates of up to 921.6Kbps, which provides steady flow of data throughput.

Quatech's PXP series is a great solution to connect with existing peripherals and maintain compatibility and functionality with their current application software.

Quatech 34mm Expresscards can be used in either 34 or 54mm Expresscard slots. As an added feature, Quatech includes their Model ADP-XP54 Expresscard 54mm adapter for 34mm cards with every shipment to improve fit and durability of the 34mm cards in the larger 54mm slots.

Quatech also sells and supports other ExpressCard connectivity products, including hard drive eSATA 2.0 and Ethernet configurations.

KEY FEATURES

- New generation of I/O expansion for notebooks
- Adds 1, 2 or 4 high-speed serial ports; 1 true parallel port
- Support PCI Express Base Specification Revision 1.1a
- Installs in any ExpressCard slot
- Built-in 1024-byte FIFOs buffers increase data transmit/receive speed
- Baud rates up to 921.6kbps
- Hot plugging and hot swapping features
- High speed ExpressCard with plug-n-play
- Supports Windows XP/Vista/7 operating systems
- 34mm ExpressCards include ADP-XP54 54mm adapter

Model Selection Guide

Model No.	Description
SSPXP-100	1 port performance PCIe-based RS-232 serial ExpressCard
DSPXP-100	2 port performance PCIe-based RS-232 serial ExpressCard
QSPXP-100	4 port performance PCIe based RS-232 serial ExpressCard
SSPXP-200/300	1 port performance PCIe-based RS-422/485 serial ExpressCard
DSPXP-200/300	2 port performance PCIe-based RS-422/485 serial ExpressCard
QSPXP-200/300	4 port performance PCIe based RS-422/485 serial ExpressCard
SPPXP-100	1 high performance PCIe-based EPP parallel port ExpressCard
For more information, please visit www.Quatech.com/catalog/expresscard_performance.php	

QUATECH
A DPAC TECHNOLOGIES COMPANY
5675 Hudson Industrial Parkway Hudson, OH 44236
1.800.553.1170 www.quatech.com

PCIe-based Serial ExpressCards (SSPXP, DSPXP, QSPXP)

Bus Interface	ExpressCard Standard, PCI Express-based Designs Specification, Revision 1.1 compliant interface
OS Support	Windows XP/Vista/7
Baud Rates	921.6kbps per port
Serial Ports	SSPXP: 1 DSPXP: 2 QSPXP:4
UARTS	16450/550/750-compatible register set
Data FIFO	1024-byte
Data Bits	Supports 5, 6, 7, 8; Supports even, odd, mark, space & no parity; Supports 1, 1.5 & 2 stop bits
SSPXP/DSPXP-100	TIA-232-F (RS-232) compliant
SSPXP/DSPXP-200/300	TIA-422-B (RS-422) & TIA-485-A (RS-485) compliant
200/300 Series	● Supports full-duplex and RTS, DTR or automatic transmitter control half-duplex ● Selectable receiver control (echo/no echo) ● Selectable RTS/CTS, TxCLK/RxCLK or loopback auxiliary data pair ● Full fail-safe (open and short) 1/8 load receivers
Warranty	5 years

PCIe-based Parallel ExpressCards (SPPXP)

Bus Interface	ExpressCard Standard, PCI Express-based Design Specification, Revision 1.1 compliant interface
OS Support	Windows XP/Vista/7
Parallel Ports	SPPXP: 1
Modes	EPP Mode, Standard Unidirectional Parallel Port Mode, Standard Bidirectional Parallel Port Mode
SPPXP-100 Series	● IEEE Standard, 1284-2000 compliant ● Supports compatibility (Centronics), Bi-directional (PS/2), ECP and EPP modes ● 2048-byte FIFO (ECP mode only) ● Supports RLE decompression (ECP mode only) ● Uses the Windows system-supplied parallel drivers
Connectors	PIN 1: STROBE PIN 2: D0 PIN 3: D1 PIN 4: D2 PIN 5: D3 PIN 6: D4 PIN 7: D5 PIN 8: D6 PIN 9: D7 PIN 10: ACK PIN 11: BUSY PIN 12: PERROR PIN 13: SELECTIN PIN 14: AUTOFEED PIN 15: NFAULT PIN 16: INT PIN 17: SELECT PIN 18: GND PIN 19: GND PIN 20: GND PIN 21: GND PIN 22: GND PIN 23: GND PIN 24: GND PIN 25: GND
Warranty	5 years

ExpressCard 54mm adapter for 34mm cards (ADP-XP54)

Features	● Enables Quatech 34mm Expresscards to be used in either 34 or 54mm Expresscard slots. ● Included with every shipment to improve fit and durability of the 34mm cards in the larger 54mm slots. ● ADP-XP54 improves the ability of the card to withstand normal or accidental stress and not dislodge from the slot.
Warranty	1 year

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