



QUATECH
CONNECT WITH RELIABILITY



Volume IV, Issue I

**Reliable Data Connectivity
for All Computing Environments**

What can Quatech connectivity do for you?

- **Save money**
 - ◆ Extend life of legacy peripherals and software applications
 - ◆ Reduce costs of system upgrades
 - ◆ Save manpower and reduce overhead
- **Enhance performance**
 - ◆ Increase speed of serial communication
 - ◆ Provide extensive expansion options for closed-box systems
 - ◆ Network-enable formerly stand-alone devices for access via wired and wireless LAN/WAN/PAN

*The serial port is often a system's front door. Uptime performance, data integrity, and in-field dependability are tied to the quality and reliability of your serial connections. That's why product reliability should be the **key factor** in your decision.*

Why is Quatech your most reliable choice?

- **World-class design and manufacturing**
- **Flawless field performance since 1983**
- **Responsive sales, service and support**

With unsurpassed quality, performance and support
Quatech provides the best
Reliability : Price Ratio



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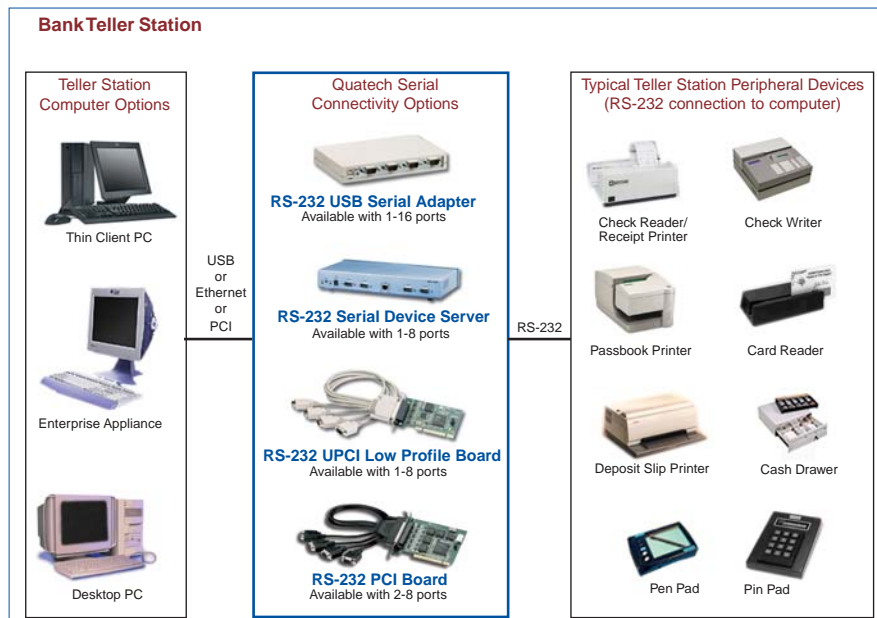
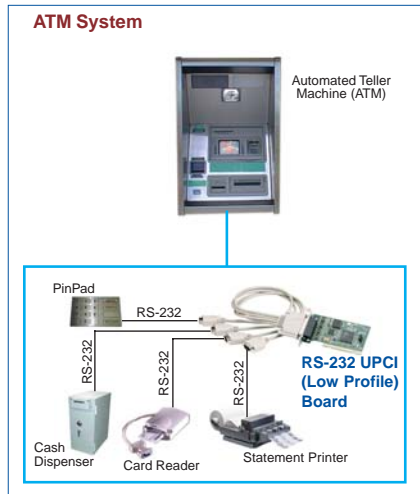
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Quatech Reliability Sustains Critical Banking Systems

Quatech serial connectivity products are currently used in a majority of the bank teller stations being installed today, with our products employed by five of the top 10 US banks, and many others internationally. Banks rely on Quatech because of the depth of our product line, the extensive range of OS support provided, and because our world-class reliability means maximum uptime for their mission critical applications.

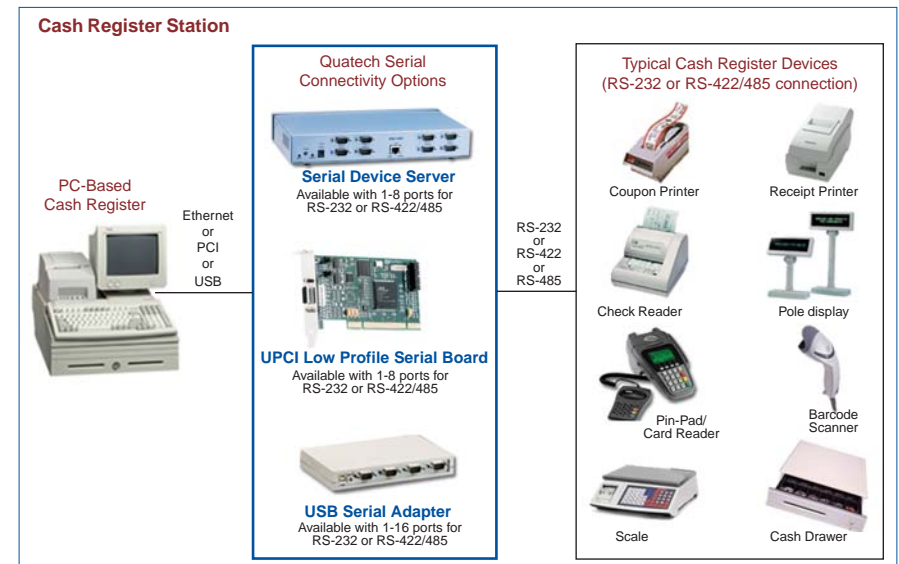
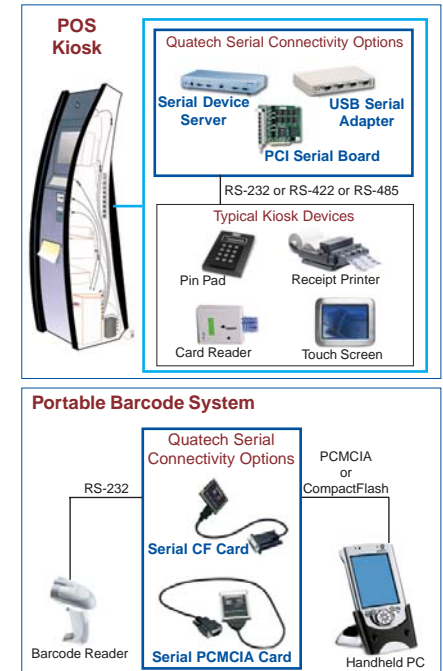
Typical banking applications involve connecting a number of serial peripherals such as key pads, card readers and cash drawers to a teller station PC or as part of an ATM or drivethrough. As shown in the diagrams, this connection can be made using PCI or Low Profile PCI boards, USB serial adapters or Serial Device Servers. All these Quatech products are supported under Windows, Linux, and OS/2 (in fact our USB serial adapters are the only ones with OS/2 support), making them ideal solutions for both desktop systems and Thin Client networks with server-side based applications.



Quatech Flexibility Enables Cost-Effective POS System Upgrades

Rapid increases in Point Of Sale application software requirements means that the PCs embedded in cash registers and kiosks have significantly shorter life-cycles than the serial devices used with them. Quatech connectivity products protect investments in these devices, thereby enabling cost-effective upgrades to new PC technology.

Quatech serial connectivity innovations also provide greater flexibility for POS system design. For example, with serial device servers formerly standalone registers and kiosks, can be remotely monitored and controlled reducing maintenance, troubleshooting, and administrative costs. Our ruggedized PCMCIA and CompactFlash cards also provide robust connectivity options for handheld-based systems. With USB serial adapters a single USB port can be used to control multiple devices--an attractive space saver for ever-smaller cash register designs. Using RS-422 or RS-485 connectivity can also enhance system economy by connecting up to 32 devices using a single port on a multi-drop network.

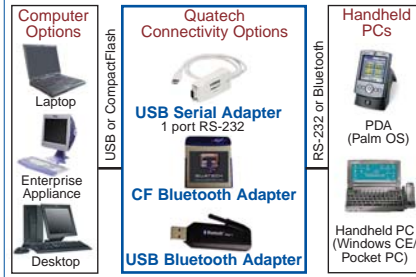


Quatech Technology Expands Mobile Computing Possibilities

Quatech PCMCIA, CompactFlash and USB adapters are ideal solutions for adding ports to laptops, tablets, PDAs and other handheld computers, thereby enabling them to access all the equipment required for a robust mobile office.

Unlike docking stations, Quatech cards are port powered so you can use them anywhere. They have low power requirements so they won't unduly tax your batteries, and they come with convenient removable cables for easy transportation. Some models are also available in ruggedized versions with attached cables, making them ideal for computing on the go. Support for Windows CE/Pocket PC, Linux, and Windows 9x-XP makes Quatech cards ideal for a wide variety of mobile computing platforms. Further, Quatech PC Cards, CF cards, and USB adapters provide "true" serial, parallel and Bluetooth ports. Thus unlike the many cheap USB cables on the market that attempt to replicate ports, our cards work seamlessly with any hardware or software that requires a serial or parallel interface--we guarantee it!

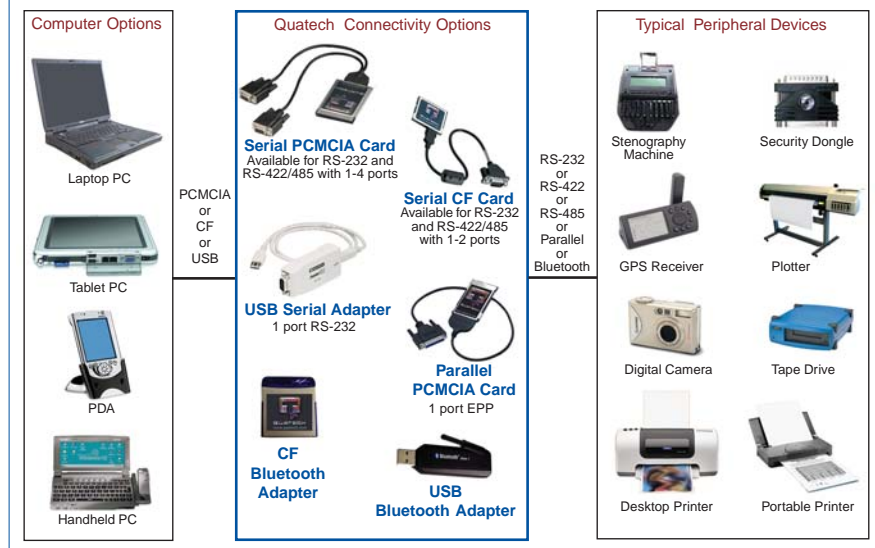
Synchronization



Secure Military Communication



Mobile Computing Systems

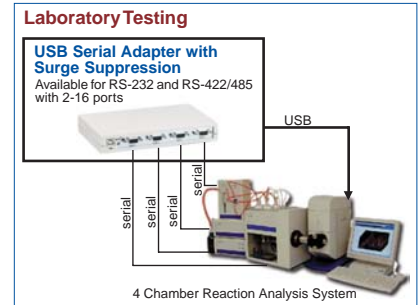
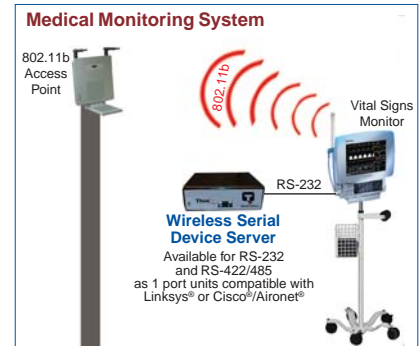


Quatech Ingenuity Simplifies Data Collection and Field Testing

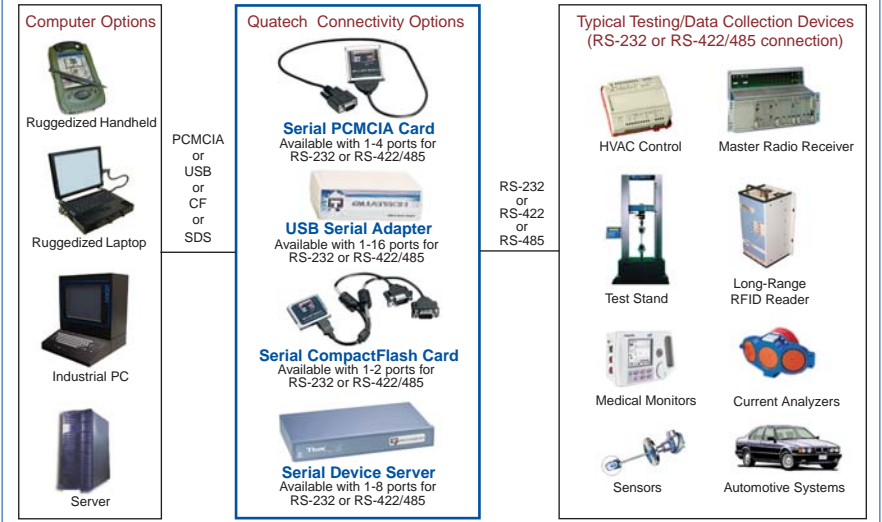
From ruggedized cabling to surge protected ports, space-saving modular connectors, and network-enabled data collection points, Quatech connectivity products enhance a wide variety of laboratory, industrial and field testing applications.

Quatech PCMCIA and CompactFlash cards enable handheld and laptop PCs to be used for in-vehicle testing, field-flash upgrades, and to collect data from any serial-equipped device. Robust USB serial adapters with the optional IND package are ideal for harsh environments, such as laboratory process testing where surge protection is essential, and the adapters' industry-leading data rates can make appreciable differences.

Quatech serial device servers can network-enable (via standard Ethernet or 802.11b wireless networks) previously stand-alone monitoring, control, and collection systems--saving capital equipment and maintenance costs, reducing manpower requirements, minimizing potential failure points, and streamlining previously isolated processes.



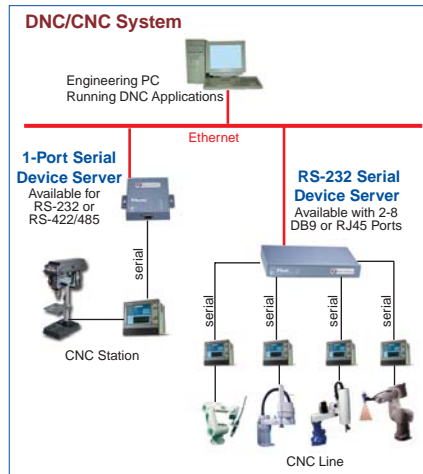
Field Testing and Data Collection Systems



Quatech Innovations Streamline Isolated Manufacturing Processes

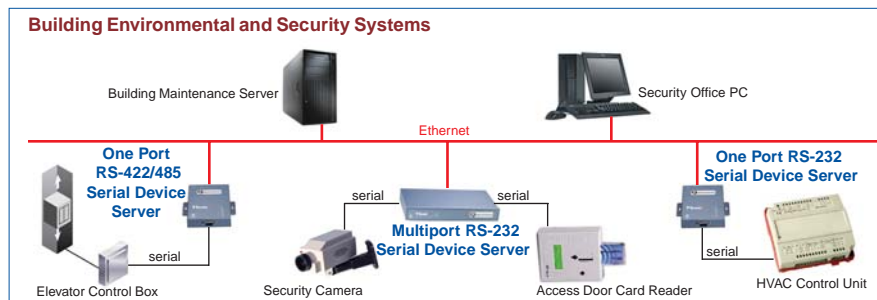
CNC machine tools move in precise increments according to instructions processed by dedicated CNC computers. Direct Numerical Control (DNC) software is used for automatic instruction code generation and entry. Traditionally, uploads to the CNC computer meant long, cumbersome serial cables or floppy disk transfers. Now, Ethernet networks and serial device servers offer easy data transfers from the network jack of an engineer's PC to the COM port on a CNC computer. Timing issues (especially latency) are critical because delays in sending or receiving instructions can cause the machine tool to damage the material in work. Quatech's ThinQ™ Serial Device Servers have the industry's lowest latency, making them the best solution for DNC/CNC applications. An engineer can now program and monitor a factory full of CNC machine tools using a single networked PC!

Ideal for factory environments, Quatech ThinQ serial device servers are housed in sturdy metal cases and can be easily DIN rail or rack mounted.



Quatech Versatility Extends Maintenance & Security Systems

A wide variety of building maintenance and security equipment is controlled via serial connectivity. For example, serial connections are used to provide directional control of security cameras, to raise and lower lights, to monitor and control thermostats and humidistats, to administer elevator operation, and to interface with security card readers that lock and unlock access doors, to name just a few. Traditionally controlled via wired serial connections directly to host computers, these applications often were hampered by labor intensive maintenance and troubleshooting, and by cumbersome cabling. While Quatech mobile connectivity products enable field-technicians to perform fast and easy diagnostics and maintenance, Quatech serial device servers (as shown in the diagram below) greatly expand the reach of these systems by network-enabling each component for remote monitoring and control.



New Products

Bluetooth Adapters



- USB or CompactFlash interface
- Bluetooth 1.1 compliant
- Class I and Class II adapters
- Connect up to 7 Bluetooth enabled devices
- Encryption and authentication for safe, secure communication
- Low power requirements
- Windows 98SE-XP, CE/PocketPC
- 3 year warranty

Model	Description
BTA-001U	USB Bluetooth Adapter, Class I
BTA-002U	USB Bluetooth Adapter, Class II
BTA-002C	CompactFlash Bluetooth Adapter, Class II

GPS Receivers



- Bluetooth, USB or CompactFlash (CF) interface
- Built-in active antenna
- Built-in super capacitor
- Foliage Lock for weak signal tracking
- All-in-view 12-channel parallel processing (16-channel for Bluetooth)
- Low power requirements
- Optional Microsoft® Streets and Trips 2005 software
- 3 year warranty (1 year for Bluetooth)


Model	Description
GPSR-001B	Bluetooth GPS Receiver
GPSR-001BS	Bluetooth GPS Receiver with Streets & Trips Software
GPSR-001U	USB GPS Receiver
GPSR-001US	USB GPS Receiver with Streets & Trips Software
GPSR-001C	CF GPS Receiver
GPSR-001CS	CF GPS Receiver with Streets & Trips Software


Most Complete Mobile Connectivity Line





Quatech's PCMCIA and CompactFlash line is the most extensive in the industry, and is compatible with most laptop, tablet, and handheld PCs. This means reliable Quatech cards can be used to power all your mobile applications.

- 1, 2 or 4 RS-232 or RS-422/485 ports or 1 EPP Parallel port
- Serial speeds to 921.6 kbps (async)
Serial speeds to 4 Mbps (sync)
- Low power requirements
- Ruggedized permanently attached cable or convenient detachable cable
- RS-422/485 full-duplex and half duplex modes supported with auto-enable/disable of transmitter
- Windows 95-XP, CE and Linux
- 5 year warranty

 PCMCIA-Serial Versatile high-speed ports for laptops, tablets, & PDAs	
Model	Description
SSP-100	1 port RS-232
SSPR-100	1 port RS-232, permanently attached cable
DSP-100	2 port RS-232
DSPR-100	2 port RS-232, permanently attached cable
QSP-100	4 port RS-232
SSP-200/300	1 port RS-422/485
DSP-200/300	2 Port RS-422/485
QSP-200/300	4 Port RS-422/485

 CompactFlash Serial ports for laptops, handhelds, & PDAs	
Model	Description
SSCF-100	1 port RS-232
SSCFR-100	1 port RS-232, permanently attached cable
DSCF-100	2 port RS-232
SSCF-200/300	1 port RS-422/485

 PCMCIA-Parallel High-speed EPP parallel port for PCMCIA	
Model	Description
SPP-100	1 port EPP Parallel


 PCMCIA-Synchronous For HDLC/SDLC and BiSync protocols	
Model	Description
MPAP-100	1 port RS-232
MPAPR-100	1 port RS-232, permanently attached cable
MPAP-200/300	1 port RS-422/485

Fastest USB Serial Adapters



Ideal for laptops, desktops and Thin Clients with limited expansion options, Quatech USB serial adapters provide a seamless transition for your legacy serial devices. Enumeration as standard COM ports means no changes to software applications required. With speeds to 460.8 kbps they are 3 times faster than standard ports. They also offer the only surge suppression package available for USB.

- 1, 2, 4, 8, or 16 independent RS-232 or RS-422/485 ports
- Serial speeds to 460.8 kbps
- Device enumerates itself as standard COM ports
- Bus powered--no external power required
- RS-422/485 full-duplex and half duplex modes supported
- Optional surge suppression
- Windows 98/Me/NT/2000/XP OS/2 and SunRay Server
- 5 year warranty

 USB Add multiple high-speed serial ports via one USB port	
Model	Description
SSU-100	1 port RS-232
DSU-100	2 port RS-232
QSU-100	4 port RS-232
ESU-100	8 port RS-232
HSU-100	16 port RS-232
DSU-200/300	2 Port RS-422/485
QSU-200/300	4 Port RS-422/485
ESU-200/300	8 Port RS-422/485
HSU-200/300	16 port RS-422/485
Options	
IND	Surge suppression package (not available for SSU-100)

Lowest Latency Serial Device Servers



Serial device servers IP-enable any serial device by connecting it to an Ethernet LAN or WAN. It can then be accessed from any computer on the network, just as if it were attached to a local serial COM port. Quatech's premium ThinQ™ line of wired and wireless serial device servers are the industry's performance leaders. The economical 410D series provides an optimal mix of features at a value price.

- Auto-detecting 10/100 Mbps Ethernet with built-in TCP/IP stack
- Easy installation and configuration
- 1-8 RS-232 or RS-422/485 ports
- Serial speeds to 921.6 kbps
- Wireless models IEEE 802.11b and IEEE 802.3 compatible
- Serial tunneling and Auto TCP mode
- Remote Web browser-based configuration, administration and troubleshooting
- Windows NT/2000/XP, Linux (ThinQ) Windows 98/Me/NT/2000/XP (410D)
- Din rail mounting for 1 port units rack mounting for multiport units
- 5 year warranty

ThinQ™ Serial Device Servers
The premium choice. Access any serial device from any PC

Model	Description
SSE-100D	1 port RS-232 (DB-9)
DSE-100D	2 port RS-232 (DB-9)
DSE-100M	2 port RS-232 (RJ-45)
QSE-100D	4 port RS-232 (DB-9)
QSE-100M	4 port RS-232 (RJ-45)
ESE-100D	8 port RS-232 (DB-9)
ESE-100M	8 port RS-232 (RJ-45)
SSE-400D	1 Port RS-232/422/485 (DB-9)
DSE-400D	2 Port RS-232/422/485 (DB-9)
Options	
SS	Surge Suppression

ThinQ™ Wireless Serial Device Servers
NEW 802.11b connectivity for flexible wireless networking solutions

Model	Description
SSEW-100L	1 port RS-232 (Linksys)
SSEW-100C	1 port RS-232 (Cisco/Aironet)
SSEW-200/300L	1 Port RS-422/485 (Linksys)
SSEW-200/300C	1 Port RS-422/485 (Cisco/Aironet)
Options	
SS	Surge suppression

410D Value Series Serial Device Servers
Feature for feature, the best value SDS in its price range

Model	Description
SSE-410D	1 port RS-232/422/485
DSE-410D	1 port RS-232/422/485 1 port RS-232

Time-Tested Reliable Serial Boards



The Quatech name guarantees a high quality serial board with an infinitesimal field failure rate. Our products provide only the high-end features you need in a well designed, extensively tested product, as well as the service and support you deserve. Available in flexible UniversalPCI low-profile versions ideal for all types of standard and Thin Client PCs, or as standard PCI boards, Quatech is the industry's best value in serial connectivity.

- 1, 2, 4 or 8 independent RS-232 or RS-422/485 ports
- Serial speeds to 921.6 kbps
- DB-9, DB-25 or RJ-11 connectors
- Synchronous card supports BiSync, HDLC & SDLC
- RS-422/485 full-duplex and half duplex modes supported with auto-enable/disable of transmitter (UPCI)
- Optional surge suppression (PCI)
- Windows 95-XP, DOS and Linux
- 5 year warranty

Universal PCI (Low Profile)
3.3V & 5V compatibility, MD1 card for Thin Clients

Model	Description
SSCLP-100	1 port RS-232
DSCLP-100	2 port RS-232
QSCLP-100	4 port RS-232
ESCLP-100	8 Port RS-232
SSCLP-200/300	1 Port RS-422/485
DSCLP-200/300	2 Port RS-422/485

PCI
4 times faster than a native COM port

Model	Description
DSC-100	2 port RS-232 (DB-9)
QSC-100	4 port RS-232 (DB-25)
QSC-100-D9	4 port RS-232 (DB-9)
ESC-100D	8 port RS-232 (DB-25)
ESC-100-D9	8 port RS-232 (DB-9)
ESC-100M	8 port RS-232 (RJ-11)
DSC-200/300	2 Port RS-422/485 (DB-9)
QSC-200/300	4 Port RS-422/485 (DB-37)
Options	
IND	Surge suppression

PCI-Synchronous
For HDLC/SDLC and BiSync protocols

Model	Description
MPAC-100	1 port RS-232

PCMCIA Drives



- Access PCMCIA cards from Desktop PCs
- PCI interface
- Supports all Type I, II and III PCMCIA cards including I/O cards, Flash memory cards and hard disk cards
- Front drive bay or rear slot units
- Accepts Type III and Type I/II cards at the same time in the same drive bay (Front drive only)
- Front drive available in beige or black finish
- Front drive installs in 3.5" or 5.25" drive bay
- Windows 95/98/Me/2000/XP
- 1 year warranty

Model	Description
PCD2-F/PCI-E	2 slot drive (front, beige finish)
B-PCD2-F/PCI-E	2 slot drive (front, black finish)
PCD-B/PCI-E	1 slot drive (rear)
SSD-Adapter	Adapter converts 5.25" drive bay 3.5" drive bay

In-line Converters



- Convert RS-232 to RS-422 or RS-485
- Transparent to software--no drivers
- 2-wire and 4-wire modes
- 1 year warranty

Model	Description
QT422LP9R	RS-232 to RS-422, port-powered, DB-9
QT422LP9TB	RS-232 to RS-422, terminal block, DB-9
QT422PP9R	RS-232 to RS-422, port-powered, DB-9
QT422PP9TB	RS-232 to RS-422, port or external power
QT422OISPR	RS-232 to RS-422, DB-25, optically isolated, power supply
QT422LPCOR	RS-232 to RS-422, DB-25 and terminal block
QT485OT9L	RS-232 to RS-422/485, LEDs, DB-9
QT485OTLED	RS-232 to RS-422/485, optically isolated, DB-25, terminal block, power supply
QT485SD9R	RS-232 to RS-485, DB-9 (f), port-powered
QT485D9TB	RS-232 to RS-485, DB-9 (f) terminal block, port-powered
QT485BAT3	RS-232 to RS-422/485, battery powered
QT232BSS4	4 Port RS-232 buffered smart switch, power supply
QT485OP	RS-422/485 repeater optically isolated, power supply
QT232SPH14	4 channel port- powered RS-232 isolator
QT9SPOP2	2 channel RS-232 isolator, port-powered, DB-9

You Choose How to Buy

Quatech values your business and we strive to provide service that exceeds your expectations. That includes giving you a choice in how to purchase:

Quatech Account Managers

Our account managers serve customers in the U.S. and internationally. Call 800-553-1170 or 330-655-9000 or e-mail sales@quatech.com or check our website to reach the full-service, in-house account manager covering your region.

Quatech Online Store (www.quatech.com)

Quatech's online store offers our entire product line, including the complete complement of accessories and replacement cables. All products are offered at MSRP, and ordering is fast and easy using a credit card or via Purchase Order (prior credit approval required).

Online Retailers

Quatech products are available from a growing number of popular online retailers in the U.S. and Canada, often at significant discounts off MSRP. See our website for the latest list.

Distributors

Quatech products are available in the U.S. and internationally via a network of highly qualified, trained distribution partners. See our website for the latest list and contact information.

VARs/System Integrators (Q-Partners)

To Buy: If you are looking to purchase a complete system or multiple system components, including Quatech products, we encourage you to consider one of our Q-Partners. Q-Partners are located throughout the U.S., Canada and Mexico. See our website for a complete list.

To Join: The Quatech Q-Partner Program is designed to help Resellers, VARs and System Integrators maximize their selling efforts and deliver high quality serial connectivity products to their clients. Our program's industry-leading benefits reward partners for their commitment and success. To join the program, see our website for complete details and an application.

Government/Education

Quatech products are currently available to the United States Government and Educational Institutions through a select set of distribution partners. See our website for a complete list.

Custom Design/OEM

Quatech provides private labeling, custom driver design, UART or crystal upgrades, nonstandard port and cable configurations, and other custom design requests for large and small projects. Contact your account manager or authorized distributor for more information.

Whichever you choose, you will always have access to expert technical support direct from Quatech.

The Quatech Promise

- We will never sell a product for an application for which it is not suited.
- We will quickly respond to all customer inquiries.
- We will immediately address all product installation and compatibility issues.
- We will never promise a delivery schedule we cannot meet.



QUATECH
CONNECT WITH RELIABILITY

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