



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

PCI Communication Solution

Peripheral Component Interconnect, also called PCI, is a local computer bus for attaching hardware devices in a computer. PCI is a standard bus in most of the desktop computers. Devices connected to the PCI bus appear to a bus master to be connected directly to its own bus and are assigned addresses in the processor's address space.

PCI Express (PCIe) is a computer expansion card standard. A key difference between PCIe and earlier PC buses is a topology based on point-to-point serial links, rather than shared parallel bus architecture. Conceptually, the PCIe bus can be thought of as a 'high-speed serial replacement' of the older PCI/PCI-X bus.

Serial communication is used for all long-distance communication and most computer networks and industrial communication. Serial computer buses are becoming more common even at shorter distances, as improved signal integrity and transmission speeds in newer serial technologies have begun.



VXC-100

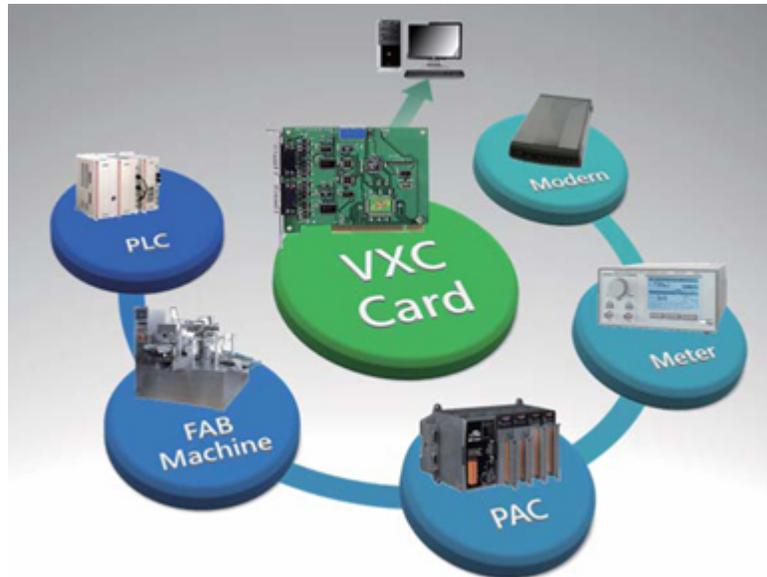
VEX-100



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The VXC-100(Universal PCI)/VEX-100(PCI Express) series communication card provides RS-232/RS-485/ RS-422 serial ports. Each port supports for speed up to 115200 bps and can work for full-duplex communication.



The VXC multi-port serial card enables user to increase additional communication ports on the PC. It's the on-top-of-the-list choice while you are managing to connect lots of outer devices through your PC; every VXC card ensures you fluent communication in both time-critical applications and industrial fields. With simply a VXC card, it has never been that easy for integration of a PC with many other devices, like PLCs, FAB machines, meters, controller devices, laboratory instruments, modems, card readers, serial printers, RFID readers, bar code readers, sensors, etc.

Users may specify a COM port number manually by setting COM-Selector (DIP switch), or let the driver choose an available number automatically. The driver provides a maximum of 128 KB software buffer for each COM port under Windows. It's practical for large file transmission.



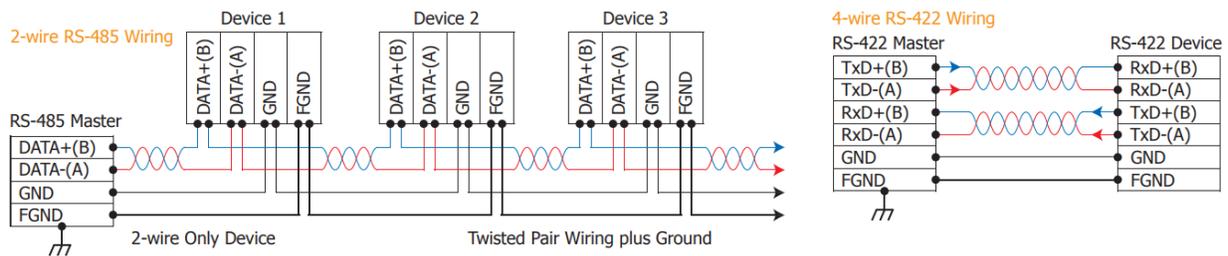
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The data lines of each serial ports on i version VXC/VEX cards come with photocouplers design. The on-board photo couplers use a short optical transmission path to transfer a signal between elements of a circuit, and keep the data lines electrically isolated. It can help cutting down on ground loops, common mode voltages and block voltage spikes, provide electrical isolation, and offer significant protection from serious over-voltage conditions in one circuit affecting the other.

In harsh industrial environments, the on-board ESD protection component (for i version) diverts the potentially damaging charge away from sensitive circuit to protects the computer and equipment from the sudden and momentary electric current.

The serial communication card are designed for use with intelligent devices like barcode reader, serial printers, intelligent sensors, instrumentation equipment, computers and almost any device with an RS-232 port.



If you have other industrial communication requirements or have questions, we can certainly help you to choose the best solution. Please call our technical support team at (310) 517-9888 X102