

NET 2282 Key Features

- ◆ PCI v3.0 – 33 or 66 MHz, 32-bit bus
- ◆ Hi-Speed USB 2.0 peripheral port
- ◆ Integrated 8051 CPU @ 30 MHz
- ◆ 32K of integrated RAM for emulating main system memory and storing descriptors
- ◆ Descriptor-based DMA controllers (4) for automatic data transfers
- ◆ Sustained throughput up to 40 MBytes/sec
- ◆ PCI Host mode for configuring and controlling PCI devices
- ◆ Low power 0.18µ process
- ◆ Ideal for USB bus-powered operation

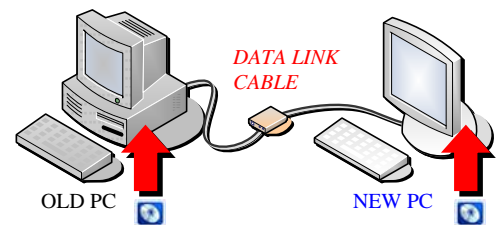
Application: *Motherboards*

PLX Product: *NET 2282 – PCI to USB 2.0 Hi-Speed Peripheral Bridge*

Key Benefit: *Ease of PC Migration and Connectivity*

Hassle of migrating to a new PC

PCs today are faster and more affordable, but users are still hanging on to their old machines because of the valuable data and history stored on them.



Migrating settings and data files from an old PC to a new one is a daunting task. Currently, PC migration requires proprietary “data link” cables along with vendor specific software. Drivers and software must be installed on both old and new machines before any transfers begin. This process is very slow, and depending on the speed of the “data link” cable, can take up to 40 minutes to transfer only 1GB of data. Consider the time it would take to transfer an entire 60GB hard drive of data! Many users put up with the slower speeds of their old machines because they dread going through the task of PC migration.

PC Connectivity made easy with USB



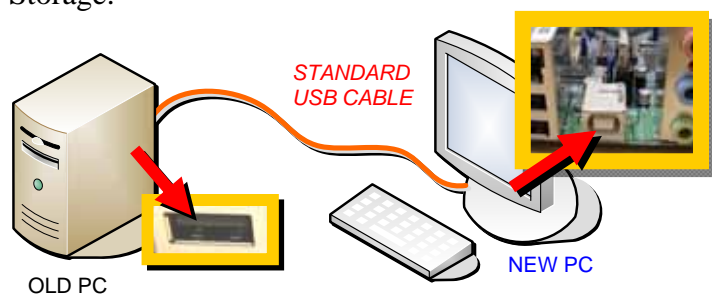
The NET 2282 is a Hi-Speed USB 2.0 solution to this PC migration problem. The NET 2282 is a PCI to USB 2.0 peripheral bridge that supports a 33/66MHz, 32-bit PCI bus on one side and USB 2.0 on the other.

PCs already have USB 2.0 Host ports, but the NET 2282 allows every PC to easily add a USB 2.0 device port. By placing the NET 2282 on the motherboard, each PC can be connected to other PCs as a USB device! With transfer speeds up to 40MBytes/sec (1 GB in less than 30 seconds!), the NET 2282 makes PC migration a lot easier and faster!



Pre-Installed PC Migration Software

Eliminating the hassle of installing drivers and software on multiple machines, pre-installed drivers and migration software are booted up with the new PC. Both Mass Storage driver and migration software image can be loaded onto the NET 2282, which allows the new PC to enumerate as a Mass Storage device. No additional drivers will be required on the old PC, which already supports Mass Storage.

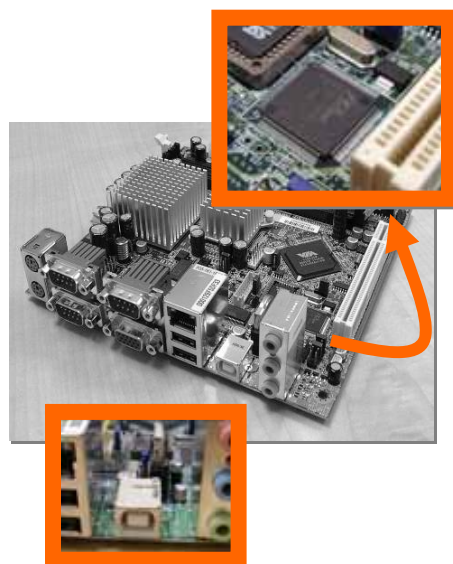


PC Migration with the NET 2282 USB 2.0 Solution

Transfers can begin by connecting the two PCs with a standard USB cable. Unplug the USB cable after completing migration, and use it to connect to other peripherals such as printers and scanners.

PC as USB device, Infinite Possibilities

By adding a USB peripheral port to the motherboard,



the PC itself becomes a USB device. This opens up infinite possibilities of applications, such as Networking over USB, Mass Storage, PC migration, and using the PC as a KVM switch.

Additional PLX Advantages

- ◆ Superior USB 2.0 expertise and support
- ◆ Complete firmware library for many standard USB device classes (Mass Storage, Networking, etc.)
- ◆ Wide Range of Application Notes
- ◆ Schematic and Layout Design Reviews
- ◆ USB 2.0 Compliance Testing
- ◆ PCI-based Development Systems

Design Tools & Documentation:

NET 2282:

<http://www.plxtech.com/products/NET2000/NET2282/default.asp>

USB Software:

<http://www.plxtech.com/products/NET2000/software/default.asp>

Available on PLX website:

- ◆ Data Book, Application Notes, Performance Reports, Migration Guide, Design Guidelines, Video Demos, and more.

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