

NET 2280 Key Features

- ◆ PCI v3.0 – 33 MHz, 32-bit bus
- ◆ Hi-Speed USB 2.0 Peripheral Port
- ◆ Ideal for adding USB 2.0 peripheral port to any PCI-based system
- ◆ API driver ready for Windows XP and Vista and Linux platforms
- ◆ Software driver support for Mass Storage, MTP, and wide variety of other applications in both WinCE and Linux embedded platforms
- ◆ Descriptor-based DMA controllers (4) for automatic data transfers
- ◆ Fully backwards compatible to Full-Speed USB connections
- ◆ Sustained throughput up to 40MBytes/sec
- ◆ 8x8x1 mm FPBGA package for ultra portable devices



Application:

Ultra Mobile Personal Computer (UMPC)

PLX Product:

NET 2280 – PCI to Hi-Speed USB 2.0 Peripheral Controller

Key Benefit:

Fast Data Transfers, Easy Software and Hardware Design

The Next Step in Mobility

The Ultra Mobile PC (UMPC) platform is designed as a PC companion for today's media-driven, on the go consumer. The UMPC allows you to surf the Internet, check e-mail, and enjoy your favorite digital media content virtually anytime, anywhere. Although the UMPC brings many benefits to mobile consumers, some questions arise from this new technology. These questions include:



- Can I sync my UMPC with my home/office PC?
- With the emphasis of mobility, how fast can I transfer large media files onto these devices?
- How easy is it to connect to *other* UMPCs to share home videos, pictures, and other data files?

The answer to all of these questions is in Hi-Speed USB 2.0 and PLX's NET 2280 PCI to USB 2.0 peripheral controller.

Easy Hardware Development

The NET 2280 is optimized for adding a USB 2.0 peripheral port to the UMPC. The PCI bus on the NET 2280 directly connects to the UMPC's PCI-based system, so the hardware design is simple. With high sustained throughput and small package size (8x8x1mm FPBGA), the NET 2280 is an ideal solution for adding USB 2.0 peripheral connectivity to the UMPC.



Sync Up and Speed Up!

As a PC companion (much like a PDA), the UMPC should be able to synchronize its data with a consumer's primary PC. Currently, a UMPC can only transfer data through WiFi or Bluetooth without an easy way to sync with a PC. With the NET 2280, UMPCs can connect with any PC through a USB 2.0 connection. Using PLX's firmware, the NET 2280 can emulate a Mass Storage device, ready for file sharing and easy synchronization. In addition, the NET 2280 offers the fast transfer rates of Hi-Speed USB 2.0, up to 480Mbps!



UMPC with a Hi-Speed USB 2.0 device port

Connect with Others

With the ability to show home videos and pictures to your family and friends anywhere you go, the same ability to *share* these files is just as important. This is why UMPCs need to be able to quickly and easily connect to one another.



With the NET 2280, UMPCs can connect with one another through a single USB cable.

Now sharing home videos and pictures is as easy as connecting a USB cable.

The possibilities are endless with the USB 2.0 device port on the UMPC. File sharing and USB networking are just a few of the many applications that can be done with the NET 2280. PLX offers a wide range of software solutions for the NET 2280 in your UMPC design.

Additional PLX Advantages

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

Design Tools & Documentation:

NET 2280:

<http://www.plxtech.com/products/NET2000/NET2280/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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