

SOLAREXPRESS PDA II USB CLASS DRIVERS SUPPORT OVERVIEW

“Windows Mobile 2003 USB Class Drivers”

Microsoft’s Windows Mobile 2003-based Pocket PC is an important milestone for Pocket PC users and developers. Pocket PC 2003 is based on a new operating system, Microsoft Windows CE .NET 4.2. Both Pocket PC 2000 and Pocket PC 2002 are built on top of Windows CE 3.0.

The name change for describing the Pocket PC’s operating system reflects this milestone. Pocket PC 2003 operating system name is now changed to Windows Mobile 2003.



The following USB Class drivers are now included in Windows Mobile 2003.

USB HID Class	USB HID class driver	usbhid.dll	Windows CE.NET 4.2 (Supports)
USB Printer Class	USB Printer class driver	usbprn.dll	Windows CE.NET 4.2 (Supports)
USB Storage Class	USB Mass Storage class driver	usbmsc.dll	Windows CE.NET 4.2 (Supports)

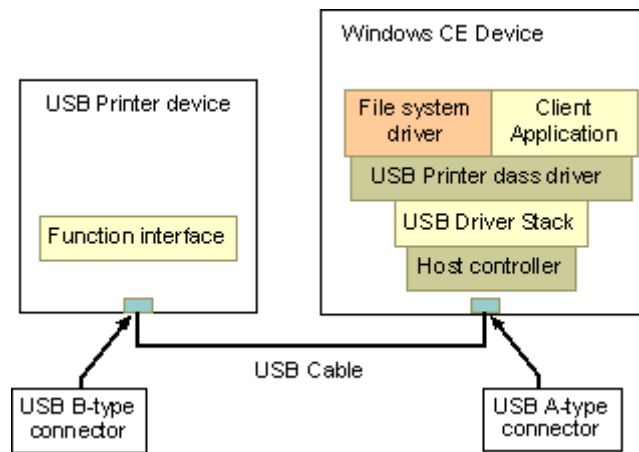
Note: USB Hub support is part of the Windows CE.NET 4.2 operating system core.

WINDOWS MOBILE 2003 USB CLASS DRIVERS

USB HID (Human Interface Devices) Class – has robust support in the Windows CE.NET 4.2 O.S. This class driver supports a range of keyboards and mice from such companies as Logitech and Microsoft.

USB Printer Class – There is some level of support for printing within Windows CE.NET 4.2. SolarExpress PDA II supports Printer Class devices, where an appropriate USB printer driver exists for the Windows Mobile 2003 environment. There are some printer drivers available under Windows CE.NET 4.2.

The figure below shows how Windows CE.NET 4.2 supports a USB Printer device.



USB Mass Storage Class – Windows CE.NET 4.2 supports FAT file format devices. USB Flash Hard drives and USB Hard drives support this type of file format. This class driver will support the majority of USB mass storage peripheral devices in the marketplace today. SolarExpress PDA II currently supports only this type of file format.

Some specific examples of USB peripherals supported by SolarExpress PDA II are:

- Canon's USB BJC-85 printer
 - <http://www.usa.canon.com/html/index1.jsp>
- Iogear's USB Hub
 - www.iogear.com
- Iomega's USB bus powered Zip 100 drive
 - http://www.iomega.com/na/products/product_family.jsp
- Maxtor's USB external hard drive
 - <http://www.maxtor.com/en/products/external/onetouch/index.htm>
- Memory Experts' USB Flash Hard drives
 - www.clipdrive.com
- Microsoft's USB Hub\Keyboard combo and Mouse
 - <http://www.microsoft.com/hardware/mouseandkeyboard/default.msp>
- Olympus D-510 Zoom
 - http://www.olympusamerica.com/cpg_section/cpg_digital_dseries.asp

The above list is not all inclusive as to the number of USB peripherals devices that SolarExpress PDA II supports. It is merely to show that SolarExpress PDA II supports the Windows Mobile 2003 USB class drivers.

USB DIGITAL STILL CAMERAS

USB Digital Still Cameras come in several types of protocols.

The two commonly used types are:

- Mass Storage compliant – These are the Digital Still Camera protocols that is supported by SolarExpress PDA II. (Olympus D- 500 Zoom series)
- Still Image Class – This class uses Picture Transport Protocol (PTP) on top of Mass Storage to exchange data. PTP is similar to mass storage, but there are differences. SolarExpress does not support these types of Digital Still Cameras. (Canon Power Shot S400)