EZ-OTG / EZ-Host Windows® CE USB Host/Peripheral/On-The-Go Driver

Highlights

- **USB Host Support**
  - Multiple USB ports
  - Supports 5 tiers of hubs
  - Up to 32 USB devices per port
- **Uses Standard WinCE Class Drivers**
  - Hub
  - Mass Storage
  - Human Interface Device
  - Printer
  - Others…
- **ActiveSync Compatible in USB Peripheral Mode**
- **USB On-The-Go Compliance Tested**
- **16-bit HPI CPU interface**
- **Available in 3 builds**
  - Host/Peripheral/OTG
  - Host-only
  - Peripheral-only

Connecting from Last Mile to First Mile™

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Develop Host and On-The-Go enabled Smart Devices

With their introduction, EZ-OTG and EZ-Host brought a new realm of USB connectivity to portable and embedded devices. Now, with a Windows CE driver compatible with Windows® CE .NET v4.2 and Windows Mobile™ 2003, Cypress makes designing a smart device even easier. The robust driver architecture bridges the power of EZ-OTG and EZ-Host with the extensive capabilities of the Windows® CE operating system.

The Cypress WinCE driver works with the existing USB stack and class drivers provided in Windows CE to instantly enable your product to communicate with millions of existing USB peripherals. Windows® CE already includes the most popular USB class drivers so you can connect to HID class devices (mice and keyboards), mass storage class devices (hard disk drives, NAND Flash drives, MP3 players, and many Digital Still Cameras), and printer class devices. And with the OTG protocol fully supported and compliance tested in both the silicon and the driver, your product can conform to the latest addition to the USB specification: USB On-The-Go.

The driver provides native support for ActiveSync as a USB peripheral. This delivers out-of-the-box connectivity for the most common method of interfacing Windows® CE peripherals to PCs.

Windows® CE Mobile USB Host Connectivity

High performance design with full-featured support

The driver utilizes the Host Port Interface (HPI) of the EZ-OTG and EZ-Host for 16-bit high performance data transfer with the system processor. The Intel XScale® PXA255 was used for driver development. Porting guides in the driver documentation provide the necessary information to adapt the driver to any hardware platform running Windows® CE.

Various Serial Interface Engine (SIE) and USB port combinations of the chips are supported, allowing a range of host, peripheral, and OTG port combinations. These include multi-port USB host, dual-role (host or peripheral) on the same SIE, such as that used by OTG devices, and simultaneous host and peripheral on separate SIEs.
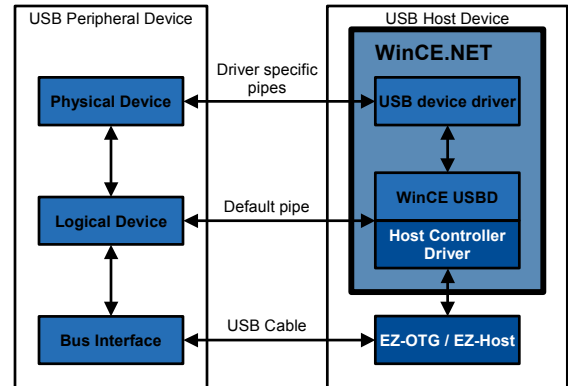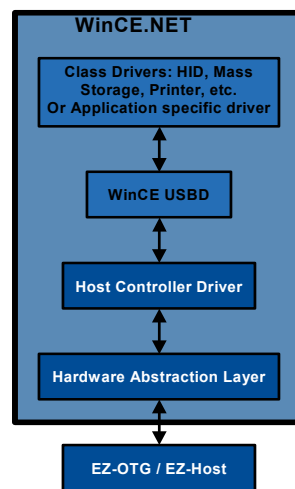

Typical system diagram showing a WinCE Host and a USB Peripheral device

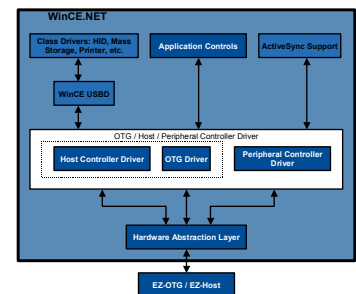## Driver builds ready to meet your application needs

Three driver builds are offered to simplify the basic driver construction for the most common implementations. The builds are:

- Host/Peripheral/On-The-Go
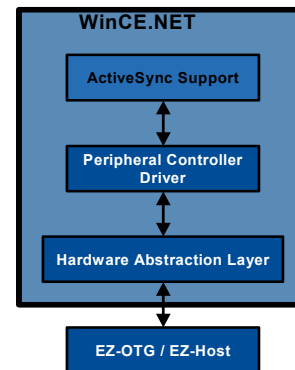- USB Host only
- USB Peripheral only

Complete source code and documentation are provided to allow customization of the driver for application specific needs.

Availability

All software is available for download from the Cypress website, www.cypress.com, under "Software Downloads".
www.cypress.com/support/link.cfm?rd=otghostwince

Host driver architecture

Host/Peripheral or OTG driver architecture

Peripheral driver architecture

For more information, visit us at:
www.cypress.com

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易迪拓培训(www.edatop.com)由数名来自于研发第一线的资深工程师发起成立,致力并专注于微波、射频、天线设计研发人才的培养;我们于 2006 年整合合并微波 EDA 网(www.mweda.com),现已发展成为国内最大的微波射频和天线设计人才培养基地,成功推出多套微波射频以及天线设计经典培训课程和 ADS、HFSS 等专业软件使用培训课程,广受客户好评;并先后与人民邮电出版社、电子工业出版社合作出版了多本专业图书,帮助数万名工程师提升了专业技术能力。客户遍布中兴通讯、研通高频、埃威航电、国人通信等多家国内知名公司,以及台湾工业技术研究院、永业科技、全一电子等多家台湾地区企业。

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该套课程全面讲授了当前手机天线相关设计技术,内容涵盖了早期的外置螺旋手机天线设计,最常用的几种手机内置天线类型——如 monopole 天线、PIFA 天线、Loop 天线和 FICA 天线的设计,以及当前高端智能手机中较常用的金属边框和全金属外壳手机天线的设计;通过该套课程的学习,可以帮助您快速、全面、系统地学习、了解和掌握各种类型的手机天线设计,以及天线及其匹配电路的设计和调试…

课程网址: http://www.edatop.com/peixun/antenna/133.html

WiFi 和蓝牙天线设计培训课程

该套课程是李明洋老师应邀给惠普 (HP)公司工程师讲授的 3 天员工内训课程录像,课程内容是李明洋老师十多年工作经验积累和总结,主要讲解了 WiFi 天线设计、HFSS 天线设计软件的使用,匹配电路设计调试、矢量网络分析仪的使用操作、WiFi 射频电路和 PCB Layout 知识,以及 EMC 问题的分析解决思路等内容。对于正在从事射频设计和天线设计领域工作的您,绝对值得拥有和学习!…

课程网址:http://www.edatop.com/peixun/antenna/134.html

CST 学习培训课程套装

该培训套装由易迪拓培训联合微波 EDA 网共同推出，是最全面、系统、专业的 CST 微波工作室培训课程套装，所有课程都由经验丰富的专家授课，视频教学，可以帮助您从零开始，全面系统地学习 CST 微波工作的各项功能及其在微波射频、天线设计等领域的设计应用。且购买该套装，还可超值赠送 3 个月免费学习答疑…

课程网址：http://www.edatop.com/peixun/cst/24.html

HFSS 学习培训课程套装

该套课程套装包含了本站全部 HFSS 培训课程，是迄今国内最全面、最专业的 HFSS 培训教程套装，可以帮助您从零开始，全面深入学习 HFSS 的各项功能和在多个方面的工程应用。购买套装，更可超值赠送 3 个月免费学习答疑，随时解答您学习过程中遇到的棘手问题，让您的 HFSS 学习更加轻松顺畅…

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该套装是迄今国内最全面、最权威的 ADS 培训教程，共包含 10 门 ADS 学习培训课程。课程是由具有多年 ADS 使用经验的微波射频与通信系统设计领域资深专家讲解，并多结合设计实例，由浅入深、详细而又全面地讲解了 ADS 在微波射频电路设计、通信系统设计和电磁仿真设计方面的内容。能让您在最短的时间内学会使用 ADS，迅速提升个人技术能力，把 ADS 真正应用到实际研发工作中去，成为 ADS 设计专家...

课程网址： http://www.edatop.com/peixun/ads/13.html

我们的课程优势：

※ 成立于 2004 年，10 多年丰富的行业经验，

※ 一直致力并专注于微波射频和天线设计工程师的培养，更了解该行业对人才的要求

※ 经验丰富的一线资深工程师讲授，结合实际工程案例，直观、实用、易学

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