

# USB COMPLETE FIFTH EDITION

Includes  
SuperSpeed and  
SuperSpeedPlus  
(USB 3.1)

**JAN AXELSON**

**THE  
DEVELOPER'S  
GUIDE**

author of  
**USB EMBEDDED HOSTS**

# Usb Complete Programmers Guide

**Andrew Davison**



## **Usb Complete Programmers Guide:**

*USB Complete: The Developer's Guide, Fifth Edition* Jan Axelson, 2015-03-01 Developers who design and program USB devices have a new resource in the fifth edition of *USB Complete The Developer's Guide* This edition adds an introduction to USB 3.1 and SuperSpeedPlus bus which offers a 2x increase in bus speed over USB 3.0's SuperSpeed For designs that don't require USB 3.1's capabilities the book also covers USB 2.0 technology and applications *USB Complete Fifth Edition* bridges the gap between the technical specifications and the real world of design and programming Author Jan Axelson distills the fundamentals of the protocols and guides developers in choosing device hardware deciding whether to target a USB class driver or another host driver and writing device firmware and host applications Example code in Visual C shows how to detect and access USB devices and how to program and communicate with vendor defined devices that use the human interface device HID class driver and Microsoft's WinUSB driver Also covered are how to use bus power including new advanced power delivery capabilities wireless communications for USB devices and developing embedded hosts including dual role USB On The Go devices Programmers and hardware designers can rely on *USB Complete's Fifth Edition* to help get projects up and running quickly Students and hobbyists will learn how to use the interface built into every PC Instructors will find inspiration and guidance for class projects

**Android Hacker's Handbook** Joshua J. Drake, Zach Lanier, Collin Mulliner, Pau Oliva Fora, Stephen A. Ridley, Georg Wicherski, 2014-03-26 The first comprehensive guide to discovering and preventing attacks on the Android OS As the Android operating system continues to increase its share of the smartphone market smartphone hacking remains a growing threat Written by experts who rank among the world's foremost Android security researchers this book presents vulnerability discovery analysis and exploitation tools for the good guys Following a detailed explanation of how the Android OS works and its overall security architecture the authors examine how vulnerabilities can be discovered and exploits developed for various system components preparing you to defend against them If you are a mobile device administrator security researcher Android app developer or consultant responsible for evaluating Android security you will find this guide is essential to your toolbox A crack team of leading Android security researchers explain Android security risks security design and architecture rooting fuzz testing and vulnerability analysis Covers Android application building blocks and security as well as debugging and auditing Android apps Prepares mobile device administrators security researchers Android app developers and security consultants to defend Android systems against attack *Android Hacker's Handbook* is the first comprehensive resource for IT professionals charged with smartphone security

**USB Complete** Jan Axelson, 2004 This guide takes the pain out of designing for this popular interface with specific detailed examples that show how to develop USB devices and the applications that communicate with them How the USB communicates with the PC deciding if a project should use a USB interface choosing a USB controller chip for peripheral design and determining code with Windows applications are covered in detail

**Embedded Linux** Craig

Hollabaugh,2002 A guide to using Linux on embedded platforms for interfacing to the real world Embedded Linux is one of the first books available that teaches readers development and implementation of interfacing applications on an Embedded Linux platform     Digital Forensics for Handheld Devices Eamon P. Doherty,2012-08-17 Approximately 80 percent of the world s population now owns a cell phone which can hold evidence or contain logs about communications concerning a crime Cameras PDAs and GPS devices can also contain information related to corporate policy infractions and crimes Aimed to prepare investigators in the public and private sectors Digital Forensics for Handheld Devices examines both the theoretical and practical aspects of investigating handheld digital devices This book touches on all areas of mobile device forensics including topics from the legal technical academic and social aspects of the discipline It provides guidance on how to seize data examine it and prepare it as evidence for court This includes the use of chain of custody forms for seized evidence and Faraday Bags for digital devices to prevent further connectivity and tampering of evidence Emphasizing the policies required in the work environment the author provides readers with a clear understanding of the differences between a corporate investigation and a criminal investigation The book also Offers best practices for establishing an incident response policy and seizing data from company or privately owned digital devices Provides guidance in establishing dedicated examinations free of viruses spyware and connections to other devices that could taint evidence Supplies guidance on determining protocols for complicated crime scenes with external media and devices that may have connected with the handheld device Considering important privacy issues and the Fourth Amendment this book facilitates an understanding of how to use digital forensic tools to investigate the complete range of available digital devices including flash drives cell phones PDAs digital cameras and netbooks It includes examples of commercially available digital forensic tools and ends with a discussion of the education and certifications required for various careers in mobile device forensics     *Learn Blackberry Games Development* Carol Hamer,Andrew Davison,2010-04-29 BlackBerry smart phones aren t just for business In fact throw away that boring spreadsheet tear up that yearly budget report the BlackBerry is a lean mean game playing machine Carol Hamer and Andrew Davison expert software game developers show you how to leverage the BlackBerry Java™ Development Environment based on Java ME to design and create fun sophisticated game applications from role playing to dueling with light sabers The BlackBerry not as clumsy or as random as a blaster an elegant device for a more civilized age In this book Carol and Andrew give you the professional techniques you need to use music 2D and 3D graphics maps and game design patterns to build peer to peer games role playing games and more for the BlackBerry     Kinect Open Source Programming Secrets : Hacking the Kinect with OpenNL, NITE, and Java Andrew Davison,2012-04-18 Program Kinect to do awesome things using a unique selection of open source software The Kinect motion sensing device for the Xbox 360 and Windows became the world s fastest selling consumer electronics device when it was released 8 million sold in its first 60 days and won prestigious awards such as Gaming Gadget of the Year Now Kinect Open Source Programming Secrets lets YOU harness the Kinect s powerful

sensing capabilities for gaming science multimedia projects and a mind boggling array of other applications on platforms running Windows Mac OS and Linux Dr Andrew Davison a user interface programming expert delivers exclusive coverage of how to program the Kinect sensor with the Java wrappers for OpenNI and NITE which are APIs created by PrimeSense the primary developers of the Kinect's technology Beginning with the basics depth imaging 3D point clouds skeletal tracking and hand gestures the book examines many other topics including Kinect gaming FFAST style gestures that aren't part of standard NITE motion detection using OpenCV how to create gesture driven GUIs accessing the Kinect's motor and accelerometer and other tips and techniques Inside Free open source APIs to let you develop amazing Kinect hacks for commercial or private use Full coverage of depth detection camera and infrared imaging point clouds Kinect gaming 3D programming gesture based GUIs and more Online access to detailed code examples on the author's web site plus bonus chapters on speech recognition beamforming and other exotica From the Author Why Buy This Book I can suggest four reasons for buying this book It offers a unique choice of Kinect programming tools It explains the official Java wrappers for those tools It covers topics not found elsewhere It provides depth but with brevity Unique Programming Tools This is the only book on programming the Kinect using the OpenNI library NITE and Java as of April 2012 when this book went to press Official Java Wrappers This is the only book that explains the official Java wrappers for OpenNI and NITE again as of April 2012 By official I mean that these bindings were developed by PrimeSense Obvious advantages of Java include object orientation cross platform support availability for free and many people including you probably knowing how to program with it Most important programming in Java gives you access to a massive number of libraries for graphics networking and beyond that can be linked to the Kinect without much effort For example I'll demonstrate how to use the Java 3D graphics library and the Java binding for the OpenCV computer vision package The main drawback of using the PrimeSense Java wrappers is their lack of documentation As I explain in Chapter 1 I had to decompile the libraries JAR files and work out the correspondences between the Java source and the somewhat better documented C OpenNI NITE APIs This is why including Secrets in the book's title isn't too excessive A Wide Range of Topics This book covers programming topics not found elsewhere I start off with the basics of course with chapters on depth infrared and RGB imaging point clouds skeletal user tracking hand tracking and gesture support Moving beyond that I cover several novel and unusual features including the following Kinect gaming based around a version of the classic Breakout video game Controls for the Kinect motor LED and accelerometer which are not part of the standard OpenNI API In fact their absence is often held up as a serious drawback of the API It's actually quite easy to add these capabilities using a custom built USB driver 3D graphics programming in the point cloud and skeletal tracking examples using Java 3D A computer vision example that demonstrates how to link the Kinect to the popular and powerful OpenCV library The creation of new body gestures inspired by the FFAST system which are not part of the limited NITE repertoire A new type of GUI component controlled by hand gesturing illustrated with three

examples a button dial and slider These components are controlled without the help of mouse or keyboard Depth with Brevity This book describes a lot of complicated code but unlike some rather hefty programming tomes you won't find all the code tediously printed on these pages Instead you can download it from the book's website In addition I've been adding supplementary chapters to the website including ones discussing speech recognition and the Kinect microphone array

EDN, 2009      **USB Complete** Jan Axelson, 2001 This guide takes the pain out of designing for this popular interface with specific detailed examples that show how to develop USB devices and the applications that communicate with them How the USB communicates with the PC deciding if a project should use a USB interface choosing a USB controller chip for peripheral design and determining code with Windows applications are covered in detail      **Library Journal**, 2009

Oracle Mobile Cloud Service Developer's Guide John Thomas, 2017-07-31 Create Modern Enterprise Mobile Apps with Oracle Mobile Cloud Service Create and deploy high performance enterprise mobile applications using the hands on information contained in this Oracle Press guide Written by a director of product management within Oracle's platform as a service group Oracle Mobile Cloud Service Developer's Guide features a start to finish case study application that clearly demonstrates key techniques and features Learn how to set up mobile back ends work with native SDKs build custom APIs and deliver best in class mobile services with Oracle Mobile Cloud Service Oracle Mobile Application Accelerator and enterprise mobile solutions are fully covered in this comprehensive resource Explore the features and benefits of Oracle Mobile Cloud Service Work from the command line within Oracle Mobile Cloud Service and native platform IDEs Visually describe business objects using REST API for Oracle Mobile Cloud Service Perform CRUD operations on the back end and client side Develop mobile applications using SDKs for iOS and Android Build a cross platform client with Oracle Mobile Application Accelerator Monitor and administer Oracle Mobile Cloud Service in enterprises of all sizes      Library Journal Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E.

Wessells, 2007 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately      **USB Embedded Hosts** Jan Axelson, 2011-11-01 Developers who want to access USB devices from their embedded systems will find a helpful resource in USB Embedded Hosts The Developer's Guide This new book from the author of USB Complete shows how small systems can take advantage of the same wealth of USB devices available to conventional PCs The book begins with a review of USB host communication protocols Readers then learn which USB host requirements are relaxed for embedded systems and what new requirements some embedded systems must meet To help in selecting a development platform the book explores available hardware and software for USB host communications in small systems The heart of the book focuses on communicating with USB devices The topics with example code include USB drives keyboards virtual serial ports network bridges mics speakers video cameras and printers plus devices that don't fit defined USB classes Also discussed are systems that support both USB

host and device functions The example code is written for the BeagleBoard xM open development board using a distribution of Linux targeted to small systems Also covered is how to use Linux commands and utilities to learn about monitor and debug communications with USB devices     *Introduction to PCI Express* Adam H. Wilen,Justin P. Schade,Ron Thornburg,2003 Offering an overview this guide details how 3GIO allows designers to overcome the practical performance limits of existing multidrop parallel bus technology and explains how to increase performance and new capabilities for a broad range of computing and communications platforms     **Forthcoming Books** Rose Arny,2001-06     **Nuts & Volts** ,2005     **Serial Communications Developer's Guide** Mark Nelson,2000 Thoroughly revised and updated with new material on the 32 bit windows platform this comprehensive guide delivers everything you need to write robust applications for embedded data logging point of sale and other communications systems You'll get a complete introduction to serial communications basics tips on getting the most out of Windows APIs methods for maximizing data exchange rates over high speed modems and the latest techniques for object oriented programming Featuring a CD ROM packed with ready to run code modules this is the one guide you need for successful serial communications development     **Change-based Test Management** Jon Sistowicz,Ray Arell,2003 Written for software engineers and testing specialists this introduction to CBTM discusses the prioritization scheme that focuses on testing the changed portions of software first     **Embedded Systems Programming** ,2000-04     UPnP Design by Example Michael Jeronimo,Jack Weast,2003 Computer network devices need to be as easy for consumers to set up as stereo equipment Universal Plug and Play UPnP is the technology that can make this happen This book is primarily a software developer s guide for enabling UPnP but it also provides a great introduction for those new to the technology

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in a similar way as mentioned above the following simple hardware implementation of the

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