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The new driver worked perfectly for real FTDI chips, but for counterfeit chips – and there are a lot of them – the USB PID was set to 0, rendering them inoperable with any computer.

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FTDI Screws Up, Backs Down
all of the heavy lifting of USB
communication is done by a
separate chip: the FTDI FT232R
USB to serial UART interface.
This allows code on both the host
and microcontroller to use much

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simpler ...

Introduction To FTDI Bitbang Mode

In line with revision 3.0 of the USB power delivery specification, up to 100W can be transferred. Among the different I/O options that are

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included within the IC are RS232,
RS422, RS485 ...

FTDI unveils single-channel
interface ICs

The PCM-COM8 is an 8-channel
PC/104-compatible serial module.
It is well suited for embedded

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applications requiring a large number of serial I/O ports. Each channel supports RS-232, RS-485, and RS-422 ...

Printed Circuit Board (PCB) Serial Communications Products
Half size Mini PCIe. PCIe to 2

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channel USB 2.0 port. Advantech EXM-522 module is a family of PCIe to 2-Ch USB 2.0 port devices. This model, EXM-522, provides a simple method of adapting two USB 2.0 ...

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Learn how to develop your own applications to monitor or control instrumentation hardware.

Whether you need to acquire data from a device or automate its functions, this practical book shows you how to use Python's rapid development capabilities to

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build interfaces that include everything from software to wiring. You get step-by-step instructions, clear examples, and hands-on tips for interfacing a PC to a variety of devices. Use the book's hardware survey to identify the interface type for your

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particular device, and then follow detailed examples to develop an interface with Python and C. Organized by interface type, data processing activities, and user interface implementations, this book is for anyone who works with instrumentation, robotics, data

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acquisition, or process control.
Understand how to define the
scope of an application and
determine the algorithms
necessary, and why it's important
Learn how to use industry-
standard interfaces such as
RS-232, RS-485, and GPIB Create

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low-level extension modules in C to interface Python with a variety of hardware and test instruments Explore the console, curses, TkInter, and wxPython for graphical and text-based user interfaces Use open source software tools and libraries to

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reduce costs and avoid
implementing functionality from
scratch

The 2016 International Conference
on Materials Science, Energy
Technology and Environmental
Engineering (MSETEE 2016) took

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place May 28-29, 2016 in Zhuhai City, China. MSETEE 2016 brought together academics and industrial experts in the field of materials science, energy technology and environmental engineering. The primary goal of the conference was to promote

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research and developmental activities in these research areas and to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working around the world. The conference will be held

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every year serving as platform for researchers to share views and experience in materials science, energy technology and environmental engineering and related areas.

The Definitive Guide to the ARM

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Cortex-M0 is a guide for users of ARM Cortex-M0 microcontrollers. It presents many examples to make it easy for novice embedded-software developers to use the full 32-bit ARM Cortex-M0 processor. It provides an overview of ARM and ARM processors and

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discusses the benefits of ARM Cortex-M0 over 8-bit or 16-bit devices in terms of energy efficiency, code density, and ease of use, as well as their features and applications. The book describes the architecture of the Cortex-M0 processor and the

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programmers model, as well as Cortex-M0 programming and instruction set and how these instructions are used to carry out various operations. Furthermore, it considers how the memory architecture of the Cortex-M0 processor affects software

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development; Nested Vectored Interrupt Controller (NVIC) and the features it supports, including flexible interrupt management, nested interrupt support, vectored exception entry, and interrupt masking; and Cortex-M0 features that target the embedded operating

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system. It also explains how to develop simple applications on the Cortex-M0, how to program the Cortex-M0 microcontrollers in assembly and mixed-assembly languages, and how the low-power features of the Cortex-M0 processor are used in

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programming. Finally, it describes a number of ARM Cortex-M0 products, such as microcontrollers, development boards, starter kits, and development suites. This book will be useful to both new and advanced users of ARM Cortex devices, from students and

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hobbyists to researchers,
professional embedded- software
developers, electronic enthusiasts,
and even semiconductor product
designers. The first and definitive
book on the new ARM Cortex-M0
architecture targeting the large
8-bit and 16-bit microcontroller

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market Explains the Cortex-M0
architecture and how to program it
using practical examples Written
by an engineer at ARM who was
heavily involved in its development

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Sensors are the eyes, ears, and more, of the modern engineered product or system- including the living human organism. This authoritative reference work, part of Momentum Press's new Sensors Technology series, edited by noted sensors expert, Dr. Joe

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Watson, will offer a complete review of all sensors and their associated instrumentation systems now commonly used in modern medicine. Readers will find invaluable data and guidance on a wide variety of sensors used in biomedical applications, from fluid

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flow sensors, to pressure sensors, to chemical analysis sensors. New developments in biomaterials-based sensors that mimic natural bio-systems will be covered as well. Also featured will be ample references throughout, along with a useful Glossary and symbols list,

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as well as convenient conversion tables.

Crompton's Battery Reference Book has become the standard reference source for a wide range of professionals and students involved in designing,

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manufacturing, and specifying products and systems that use batteries. This book is unique in providing extensive data on specific battery types, manufacturers and suppliers, as well as covering the theory - an aspect of the book which makes an

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updated edition important for every professional's library. The coverage of different types of battery is fully comprehensive, ranging from minute button cells to large installations weighing several hundred tonnes. Must-have information and data on all classes

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of battery in an accessible form
Essential reference for design
engineers in automotive and
aerospace applications,
telecommunications equipment,
household appliances, etc. Informs
you of developments over the past
five years

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The present tenth edition of the popular '30x Circuits' series of books once again contains a comprehensive variety of circuits, sub-circuits, tips and tricks and design ideas for electronics. These 309 Circuits again offer a

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representative indication of present-day electronics. Regular '30x series' enthusiasts will no doubt know what to expect: 309 Circuits contains many fully elaborated electronics projects. In addition, there are numerous ideas, each of which with a potential for

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use in your own research, projects and applications. Among many other inspiring topics, the following categories are well presented in this book: test & measurement; RF (radio); computers and peripherals; audio & video; hobby and modelling;

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microcontrollers; home & garden;
power supplies & battery
chargers; etcetera.

This White Doing Arts And Crafts
Notebook / Journal makes an
excellent Birthday, School,
Graduation or Christmas gift for

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anyone that loves to follow their passion. It is 6x9 inches and has 109 blank pages, which makes it an ideal notebook to take with you everywhere you go. This journal is suitable for men or women, boys and girls of all ages, and makes the perfect gift for any occasion, such

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as birthdays, Christmas or just to give to family and friends!

Linux® is being adopted by an increasing number of embedded systems developers, who have been won over by its sophisticated scheduling and networking, its cost-

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free license, its open development model, and the support offered by rich and powerful programming tools. While there is a great deal of hype surrounding the use of Linux in embedded systems, there is not a lot of practical information.

Building Embedded Linux Systems

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is the first in-depth, hard-core guide to putting together an embedded system based on the Linux kernel. This indispensable book features arcane and previously undocumented procedures for: Building your own GNU development toolchain Using

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an efficient embedded
development framework Selecting,
configuring, building, and installing
a target-specific kernel Creating a
complete target root filesystem
Setting up, manipulating, and using
solid-state storage devices
Installing and configuring a

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bootloader for the target Cross-
compiling a slew of utilities and
packages Debugging your
embedded system using a plethora
of tools and techniques Details are
provided for various target
architectures and hardware
configurations, including a

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thorough review of Linux's support for embedded hardware. All explanations rely on the use of open source and free software packages. By presenting how to build the operating system components from pristine sources and how to find more

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documentation or help, this book greatly simplifies the task of keeping complete control over one's embedded operating system, whether it be for technical or sound financial reasons. Author Karim Yaghmour, a well-known designer and speaker who is

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responsible for the Linux Trace Toolkit, starts by discussing the strengths and weaknesses of Linux as an embedded operating system. Licensing issues are included, followed by a discussion of the basics of building embedded Linux systems. The configuration,

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setup, and use of over forty different open source and free software packages commonly used in embedded Linux systems are also covered. uClibc, BusyBox, U-Boot, OpenSSH, tftpd, tftp, strace, and gdb are among the packages discussed.

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The purpose of this book is to provide tools to design and implement network-orientated applications in .NET. It is also a guide for software designers to choose the best and most efficient way to implement mission critical

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solutions. The book addresses real-world issues facing professional developers, such as using third-party components as opposed in-house development. It differentiates itself from existing .NET publications because it is aimed at experienced

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professionals and concentrates on practical, ready-to-use information. The book is written in two languages C# and VB.NET, and covers never-before published information on Telephony in .NET and packet-level networking. This is the second book in the Digital

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Press Software Development Series. Coverage of lower level protocols allows implementation of performance-centric applications Demonstrates the feasibility of developing telephony solutions in-house rather than outsourcing Written in VB.NET and C# to

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assist readers working in either language Coverage of Email, FTP and the WWW allows implementation of applications in all three areas

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