

How To Flash Stock Firmware On Samsung Galaxy J7 Sm J7008

Electronic ProductsIoT Development for ESP32 and ESP8266 with JavaScriptMobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second EditionKali Linux RevealedEmbedded Firmware SolutionsMethods to Increase the Internal Storage Space of Android DevicesProgramming Embedded SystemsBritish Journal of PhotographyWindows 10 Step by StepiPhone Open Application DevelopmentCCNA Cyber Ops SECFND #210-250 Official Cert GuideDiscovery of DesignTony Northrup's DSLR Book: How to Create Stunning Digital PhotographyBeagleBone For DummiesIntroducing Delphi ORMEmbedded Flash Memory for Embedded Systems: Technology, Design for Sub-systems, and InnovationsMastering the Fujifilm X-Pro 1Performance Fuel Injection Systems HP1557ARRL's VHF Digital HandbookiPhone HacksESP8266 Robotics ProjectsIEEE Standard Glossary of Software Engineering TerminologyInside Solid State Drives (SSDs)Linux Device DriversThe Hero of Numbani (Overwatch #1)Platform Embedded Security Technology RevealedThe Firmware HandbookNewark ElectronicsQuick Guide for Using External Memory Card to Increase Internal Storage Space of Android DevicesArchitecting for ScaleKali Linux Cookbook - Second EditionAsian Sources ElectronicsFujifilm X100SThe British Journal of PhotographyLearning IoT with Particle Photon and ElectronStarting Your Career as a Freelance Web DesignerAndroid Hacker's HandbookThe Mobile Application Hacker's HandbookThe Car Hacker's HandbookStandard & Poor's Stock Reports

Electronic Products

A practical guide to modifying and tuning modern electronic fuel injection (EFI) systems, including engine control units (ECUs). The book starts out with plenty of foundational topics on wiring, fuel systems, sensors, different types of ignition systems, and other topics to help ensure the reader understands how EFI Systems work. Next the book builds on that foundation, helping the reader to understand the different options available: Re-tuning factory ECUs, add on piggyback computers, or all out standalone engine management systems. Next Matt and Jerry help the reader to understand how to configure a Standalone EMS, get the engine started, prep for tuning, and tune the engine for maximum power and drivability. Also covered is advice on tuning other functions-- acceleration enrichments, closed loop fuel correction, and more. Finally, the book ends with a number of case studies highlighting different vehicles and the EMS solutions that were chosen for each, helping to bring it all together with a heavy emphasis on how you can practically approach your projects and make them successful!

IoT Development for ESP32 and ESP8266 with JavaScript

A world created in perfection, now unveiled From the frontiers of scientific discovery, researchers are now taking design elements from the natural world and creating extraordinary breakthroughs that benefit our health, our quality of life, our ability to communicate, and even help us work more efficiently. An exciting look at cutting-edge scientific advances, Discover of Design highlights incredible examples

that include: How things like batteries, human organ repair, microlenses, automotive engineering, paint, and even credit card security all have links to natural designs. Innovations like solar panels in space unfurled using technology gleaned from beech tree leaves, and optic research rooted in the photonic properties of opal gemstones. Current and future research from the fields of stealth technology, communications, cosmetics, nanotechnology, surveillance, and more! Take a fantastic journey into the intersection of science and God's blueprints for life - discovering answers to some of the most intricate challenges we face. Experience this powerful apologetics message in a multi-purpose resource as a personal enrichment tool or as an educational supplement.

Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition

With iPhone Hacks, you can make your iPhone do all you'd expect of a mobile smartphone -- and more. Learn tips and techniques to unleash little-known features, find and create innovative applications for both the iPhone and iPod touch, and unshackle these devices to run everything from network utilities to video game emulators. This book will teach you how to: Import your entire movie collection, sync with multiple computers, and save YouTube videos. Remotely access your home network, audio, and video, and even control your desktop. Develop native applications for the iPhone and iPod touch on Linux, Windows, or Mac. Check email, receive MMS messages, use IRC, and record full-motion video. Run any application in the iPhone's background, and mirror its display on a TV. Make your iPhone emulate old-school video game platforms, and play classic console and arcade games. Integrate your iPhone with your car stereo. Build your own electronic bridges to connect keyboards, serial devices, and more to your iPhone without "jailbreaking". iPhone Hacks explains how to set up your iPhone the way you want it, and helps you give it capabilities that will rival your desktop computer. This cunning little handbook is exactly what you need to make the most of your iPhone.

Kali Linux Revealed

The Firmware Handbook provides a comprehensive reference for firmware developers looking to increase their skills and productivity. It addresses each critical step of the development process in detail, including how to optimize hardware design for better firmware. Topics covered include real-time issues, interrupts and ISRs, memory management (including Flash memory), handling both digital and analog peripherals, communications interfacing, math subroutines, error handling, design tools, and troubleshooting and debugging. This book is not for the beginner, but rather is an in-depth, comprehensive one-volume reference that addresses all the major issues in firmware design and development, including the pertinent hardware issues. Included CD-Rom contains all the source code used in the design examples, so engineers can easily use it in their own designs.

Embedded Firmware Solutions

The Fujifilm X100S is a digital camera with a 23mm fixed prime lens. It is intended

for amateurs to semi-professionals who want a camera that allows them to make great images faster and with less hassle than any other digital camera. While the camera manual explains what the camera can do, it doesn't show exactly how to use the camera to create great images! That's where Fujifilm X100S: From Snapshots to Great Shots comes in. Starting with the top ten things users need to know about the camera, author Kevin Mullins carefully guides readers through the operating features. Readers get practical advice from a pro on which settings to use when, great shooting tips, and end of chapter assignments. From Snapshots to Great Shots is a beautiful how-to photography series that provides the perfect blend of instruction, inspiration, and reference for specific camera models and photography concepts. Featuring a clear, elegant design; outstanding images that educate and inspire; and a friendly, accessible voice, this series helps photographers get great shots every time they pick up their camera.

Methods to Increase the Internal Storage Space of Android Devices

See your app through a hacker's eyes to find the real sources of vulnerability The Mobile Application Hacker's Handbook is a comprehensive guide to securing all mobile applications by approaching the issue from a hacker's point of view. Heavily practical, this book provides expert guidance toward discovering and exploiting flaws in mobile applications on the iOS, Android, Blackberry, and Windows Phone platforms. You will learn a proven methodology for approaching mobile application assessments, and the techniques used to prevent, disrupt, and remediate the various types of attacks. Coverage includes data storage, cryptography, transport layers, data leakage, injection attacks, runtime manipulation, security controls, and cross-platform apps, with vulnerabilities highlighted and detailed information on the methods hackers use to get around standard security. Mobile applications are widely used in the consumer and enterprise markets to process and/or store sensitive data. There is currently little published on the topic of mobile security, but with over a million apps in the Apple App Store alone, the attack surface is significant. This book helps you secure mobile apps by demonstrating the ways in which hackers exploit weak points and flaws to gain access to data. Understand the ways data can be stored, and how cryptography is defeated Set up an environment for identifying insecurities and the data leakages that arise Develop extensions to bypass security controls and perform injection attacks Learn the different attacks that apply specifically to cross-platform apps IT security breaches have made big headlines, with millions of consumers vulnerable as major corporations come under attack. Learning the tricks of the hacker's trade allows security professionals to lock the app up tight. For better mobile security and less vulnerable data, The Mobile Application Hacker's Handbook is a practical, comprehensive guide.

Programming Embedded Systems

As we all know, there are many Android phones are facing low internal memory issue when installing games and apps. This problem is especially serious in budget phones because most of these phones have little memory; for example, some Android phones only have 4G memory. If you are running insufficient storage

space on your Android phone, you can expand and increase internal memory through several different methods. The common methods that can help to increase internal storage space of android. Method 1. Turn to cloud storage Method 2. Use USB OTG storage Method 3. Delete unwanted Apps and clean all the history and cache Method 4. Use Memory card to increase internal storage space of Android device. Method 5. Use Terminal Emulator App Method 6. Use Mounts2SD App Methods 7: Install and Run GOM Saver to Increase Storage Space on Android Phone Method 8: Install Root External 2 Internal SD App In this report I will investigate the possible methods that can be used to increase the internal storage of Android device. I will also show how to troubleshoot and solve certain problem that we get when having Android devices. The report consists from the following parts: Turning to cloud storage. Using USB OTG storage. Deleting unwanted Apps and clean all the history and cache. How to root an android device. Using external memory card to increase internal storage space of Android device. Using Apps2SD App. How to partition and format disks in windows using Diskpart tool. Using Terminal Emulator App How to transfer your Google Authenticator 2FA to a new phone. How to install the ADB Driver on your Windows PC to communicate with an android device. Installing Init.d, Busybox and mound2SD Apps on an Android device to increase the internal memory. How to unlock the boot loader via fastboot on Android. Installing TWRP custom recovery on an android device. Installing ClockworkMod CWM recovery on an android phone. Installing GOM Saver to increase storage space on Android device. Installing Root External 2 Internal SD APK. Installing Custom Rom. How to recover your deleted Whatsapp messages. 19. How to backup Android devices personal data. How to root the Samsung GT-S5310 using Odin flash tool: How to root the Samsung Galaxy A7 (SM-A700FD) How to flash the Samsung Galaxy A7 (SM-A700FD) with firmware file. How to root Galaxy A7 [A700FD] and install TWRP Recovery

British Journal of Photography

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CCNA Cyber Ops SECFND 210-250 exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master CCNA Cyber Ops SECFND 210-250 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks CCNA Cyber Ops SECFND 210-250 Official Cert Guide is a best-of-breed exam study guide. Cisco enterprise security experts Omar Santos, Joseph Muniz, and Stefano De Crescenzo share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The study

guide helps you master all the topics on the CCNA Cyber Ops SECFND exam, including: Fundamentals of networking protocols and networking device types Network security devices and cloud services Security principles Access control models Security management concepts and techniques Fundamentals of cryptography and PKI Essentials of Virtual Private Networks (VPNs) Windows-based Analysis Linux /MAC OS X-based Analysis Endpoint security technologies Network and host telemetry Security monitoring operations and challenges Types of attacks and vulnerabilities Security evasion techniques

Windows 10 Step by Step

Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

IPhone Open Application Development

Mastering the Fujifilm X-Pro 1 provides a wealth of experienced-based information and insights for owners of the new X-Pro 1 camera. Readers will learn about the features and capabilities of the X-Pro 1 and will discover numerous tips and tricks for how to maximize its potential. With the X-Pro 1, Fujifilm released the first mirrorless camera with an APS-C sensor. The successful combination of high-end retro design and state-of-the-art digital camera technology, originally seen in the X100 viewfinder camera, has been pushed even further to achieve this interchangeable-lens camera. The X-Pro 1 offers three FUJINON interchangeable lenses. In a layout suitable to the camera's attractive design, this manual presents imagery that attests to the fun you will have as you begin to push the envelope of your Fujifilm X-Pro 1.

CCNA Cyber Ops SECFND #210-250 Official Cert Guide

Discovery of Design

Tony Northrup's DSLR Book: How to Create Stunning Digital Photography

Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

BeagleBone For Dummies

Build simple yet amazing robotics projects using ESP8266 About This Book Get familiar with ESP8266 and its features. Build Wi-Fi controlled robots using ESP8266 A project based book that will use the ESP8266 board and some of its popular variations to build robots. Who This Book Is For This book is targeted at enthusiasts who are interested in developing low-cost robotics projects using ESP8266. A basic knowledge of programming will be useful but everything you need to know is are covered in the book. What You Will Learn Build a basic robot with the original

ESP8266, Arduino UNO, and a motor driver board. Make a Mini Round Robot with ESP8266 HUZDAH Modify your Mini Round Robot by integrating encoders with motors Use the Zumo chassis kit to build a line-following robot by connecting line sensors Control your Romi Robot with Wiimote Build a Mini Robot Rover chassis with a gripper and control it through Wi-Fi Make a robot that can take pictures In Detail The ESP8266 Wi-Fi module is a self-contained SOC with an integrated TCP/IP protocol stack and can give any microcontroller access to your Wi-Fi network. It has a powerful processing and storage capability and also supports application hosting and Wi-Fi networking. This book is all about robotics projects based on the original ESP8266 microcontroller board and some variants of ESP8266 boards. It starts by showing all the necessary things that you need to build your development environment with basic hardware and software components. The book uses the original ESP8266 board and some variants such as the Adafruit HUZDAH ESP8266 and the Adafruit Feather HUZDAH ESP8266 . You will learn how to use different type of chassis kits, motors, motor drivers, power supplies, distribution boards, sensors, and actuators to build robotics projects that can be controlled via Wi-Fi. In addition, you will learn how to use line sensors, the ArduiCam, Wii Remote, wheel encoders, and the Gripper kit to build more specialized robots. By the end of this book, you will have built a Wi-Fi control robot using ESP8266. Style and approach A project-based guide that will help you build exciting robotics using ESP8266.

Introducing Delphi ORM

Master the tools and techniques of mobile forensic investigations Conduct mobile forensic investigations that are legal, ethical, and highly effective using the detailed information contained in this practical guide. Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition fully explains the latest tools and methods along with features, examples, and real-world case studies. Find out how to assemble a mobile forensics lab, collect prosecutable evidence, uncover hidden files, and lock down the chain of custody. This comprehensive resource shows not only how to collect and analyze mobile device data but also how to accurately document your investigations to deliver court-ready documents. •Legally seize mobile devices, USB drives, SD cards, and SIM cards•Uncover sensitive data through both physical and logical techniques•Properly package, document, transport, and store evidence•Work with free, open source, and commercial forensic software•Perform a deep dive analysis of iOS, Android, and Windows Phone file systems•Extract evidence from application, cache, and user storage files•Extract and analyze data from IoT devices, drones, wearables, and infotainment systems•Build SQLite queries and Python scripts for mobile device file interrogation•Prepare reports that will hold up to judicial and defense scrutiny

Embedded Flash Memory for Embedded Systems: Technology, Design for Sub-systems, and Innovations

Kali Linux is an open source Linux distribution for security, digital forensics, and penetration testing tools, and is now an operating system for Linux users. It is the successor to BackTrack, the world's most popular penetration testing distribution tool. In this age, where online information is at its most vulnerable, knowing how to

execute penetration testing techniques such as wireless and password attacks, which hackers use to break into your system or network, help you plug loopholes before it's too late and can save you countless hours and money. Kali Linux Cookbook, Second Edition is an invaluable guide, teaching you how to install Kali Linux and set up a virtual environment to perform your tests. You will learn how to eavesdrop and intercept traffic on wireless networks, bypass intrusion detection systems, attack web applications, check for open ports, and perform data forensics. This book follows the logical approach of a penetration test from start to finish with many screenshots and illustrations that help to explain each tool in detail. This book serves as an excellent source of information for security professionals and novices alike.

Mastering the Fujifilm X-Pro 1

This book provides a comprehensive introduction to embedded flash memory, describing the history, current status, and future projections for technology, circuits, and systems applications. The authors describe current main-stream embedded flash technologies from floating-gate 1Tr, floating-gate with split-gate (1.5Tr), and 1Tr/1.5Tr SONOS flash technologies and their successful creation of various applications. Comparisons of these embedded flash technologies and future projections are also provided. The authors demonstrate a variety of embedded applications for auto-motive, smart-IC cards, and low-power, representing the leading-edge technology developments for eFlash. The discussion also includes insights into future prospects of application-driven non-volatile memory technology in the era of smart advanced automotive system, such as ADAS (Advanced Driver Assistance System) and IoE (Internet of Everything). Trials on technology convergence and future prospects of embedded non-volatile memory in the new memory hierarchy are also described. Introduces the history of embedded flash memory technology for micro-controller products and how embedded flash innovations developed; Includes comprehensive and detailed descriptions of current main-stream embedded flash memory technologies, sub-system designs and applications; Explains why embedded flash memory requirements are different from those of stand-alone flash memory and how to achieve specific goals with technology development and circuit designs; Describes a mature and stable floating-gate 1Tr cell technology imported from stand-alone flash memory products - that then introduces embedded-specific split-gate memory cell technologies based on floating-gate storage structure and charge-trapping SONOS technology and their eFlash sub-system designs; Describes automotive and smart-IC card applications requirements and achievements in advanced eFlash beyond 4 0nm node.

Performance Fuel Injection Systems HP1557

The quick way to learn Windows 10 This is learning made easy. Get more done quickly with Windows 10. Jump in wherever you need answers--brisk lessons and colorful screenshots show you exactly what to do, step by step. Discover fun and functional Windows 10 features! Work with the new, improved Start menu and Start screen Learn about different sign-in methods Put the Cortana personal assistant to work for you Manage your online reading list and annotate articles with the new browser, Microsoft Edge Help safeguard your computer, your information,

and your privacy Manage connections to networks, devices, and storage resources

ARRL's VHF Digital Handbook

The top-rated and top-selling photography ebook since 2012 and the first ever Gold Honoree of the Benjamin Franklin Digital Award, gives you five innovations no other book offers: Free video training. 9+ HOURS of video training integrated into the book's content (requires Internet access). Travel around the world with Tony and Chelsea as they teach you hands-on. Appendix A lists the videos so you can use the book like an inexpensive video course. Classroom-style teacher and peer help. After buying the book, you get access to the private forums on this site, as well as the private Stunning Digital Photography Readers group on Facebook where you can ask the questions and post pictures for feedback from Tony, Chelsea, and other readers. It's like being able to raise your hand in class and ask a question! Instructions are in the introduction. Lifetime updates. This book is regularly updated with new content (including additional videos) that existing owners receive for free. Updates are added based on reader feedback and questions, as well as changing photography trends and new camera equipment. This is the last photography book you'll ever need. Hands-on practices. Complete the practices at the end of every chapter to get the real world experience you need. 500+ high resolution, original pictures. Detailed example pictures taken by the author in fifteen countries demonstrate both good and bad technique. Many pictures include links to the full-size image so you can zoom in to see every pixel. Most photography books use stock photography, which means the author didn't even take them. If an author can't take his own pictures, how can he teach you? In this book, Tony Northrup (award-winning author of more than 30 how-to books and a professional portrait, wildlife, and landscape photographer) teaches the art and science of creating stunning pictures. First, beginner photographers will master: Composition Exposure Shutter speed Aperture Depth-of-field (blurring the background) ISO Natural light Flash Troubleshooting blurry, dark, and bad pictures Pet photography Wildlife photography (mammals, birds, insects, fish, and more) Sunrises and sunsets Landscapes Cityscapes Flowers Forests, waterfalls, and rivers Night photography Fireworks Raw files HDR Macro/close-up photography Advanced photographers can skip forward to learn the pro's secrets for: Posing men and women. including corrective posing (checklists provided) Portraits (candid, casual, formal, and underwater) Remotely triggering flashes Using bounce flash and flash modifiers Using studio lighting on any budget Building a temporary or permanent studio at home Shooting your first wedding High speed photography Location scouting/finding the best spots and times Planning shoots around the sun and moon Star trails (via long exposure and image stacking) Light painting Eliminating noise Focus stacking for infinite depth-of-field Underwater photography Getting close to wildlife Using electronic shutter triggers Photographing moving cars Photographing architecture and real estate

iPhone Hacks

The definitive, easy-to-use guide to the popular BeagleBone board BeagleBone For Dummies is the definitive beginner's guide to using the popular BeagleBone board to learn electronics and programming. Unlike other books that require previous knowledge of electronics, Linux, and Python, this one assumes you know nothing at

all, and guides you step-by-step throughout the process of getting acquainted with your BeagleBone Original or BeagleBone Black. You'll learn how to get set up, use the software, build the hardware, and code your projects, with plenty of examples to walk you through the process. You'll move carefully through your first BeagleBone project, then get ideas for branching out from there to create even better, more advanced programs. The BeagleBone is a tiny computer board - about the size of a credit card - that has all the capability of a desktop. Its affordability and ease of use has made it popular among hobbyists, hardware enthusiasts, and programmers alike, and it's time for you to join their ranks as you officially dive into the world of microcomputers. This book removes the guesswork from using the popular BeagleBone board and shows you how to get up and running in no time. Download the operating system and connect your BeagleBone. Learn to navigate the desktop environment Start programming with Python and Bonescript Build your first project, and find plans for many more To learn BeagleBone, you could spend hours on the Internet and still never find the information you need, or you can get everything you need here. This book appeals to all new and inexperienced hobbyists, tinkerers, electronics gurus, hackers, budding programmers, engineers, and hardware geeks who want to learn how to get the most out of their powerful BeagleBone.

ESP8266 Robotics Projects

Looks at the native environment of the iPhone and describes how to build software for the device.

IEEE Standard Glossary of Software Engineering Terminology

Inside Solid State Drives (SSDs)

This book introduces a new approach to embedded development, grounded in modern, industry-standard JavaScript. Using the same language that powers web browsers and Node.js, the Moddable SDK empowers IoT developers to apply many of the same tools and techniques used to build sophisticated websites and mobile apps. The Moddable SDK enables you to unlock the full potential of inexpensive microcontrollers like the ESP32 and ESP8266. Coding for these microcontrollers in C or C++ with the ESP-IDF and Arduino SDKs works for building basic products but doesn't scale to handle the increasingly complex IoT products that customers expect. The Moddable SDK adds the lightweight XS JavaScript engine to those traditional environments, accelerating development with JavaScript while keeping the performance benefits of a native SDK. Building user interfaces and communicating over the network are two areas where JavaScript really shines. IoT Development for ESP32 and ESP8266 with JavaScript shows you how to build responsive touch screen user interfaces using the Piu framework. You'll learn how easy it is to securely send and receive JSON data over Wi-Fi with elegant JavaScript APIs for common IoT protocols, including HTTP/HTTPS, WebSocket, MQTT, and mDNS. You'll also learn how to integrate common sensors and actuators, Bluetooth Low Energy (BLE), file systems, and more into your projects, and you'll see firsthand how JavaScript makes it easier to combine these diverse technologies. If

you're an embedded C or C++ developer who has never worked in JavaScript, don't worry. This book includes an introduction to the JavaScript language just for embedded developers experienced with C or C++. What You'll Learn Building, installing, and debugging JavaScript projects on the ESP32 and ESP8266 Using modern JavaScript for all aspects of embedded development with the Moddable SDK Developing IoT products with animated user interfaces, touch input, networking, BLE, sensors, actuators, and more Who This Book Is For Professional embedded developers who want the speed, flexibility, and power of web development in their embedded software work Makers who want a faster, easier way to build their hobby projects Web developers working in JavaScript who want to extend their skills to hardware products

Linux Device Drivers

The Hero of Numbani (Overwatch #1)

Without complicated "owners manual" jargon, ARRL's VHF Digital Handbook presents the material through a unique how-to approach and friendly, conversational style. Readers will understand how to set up and operate their equipment and software, and make the best use of their VHF digital station.--Book cover.

Platform Embedded Security Technology Revealed

Break out of the cubicle and gain the business savvy you need to launch your own freelance web design business with Starting Your Career as a Freelance Web Designer! Written by seasoned pro Neil Tortorella, this book guides web designers step-by-step down the path to success and helps them avoid common pitfalls. Jam-packed with practical know-how, this book also contains the wisdom and advice of noted industry authorities and business leaders. Readers will learn how to draft a solid business plan, negotiate contracts, manage time and money, deal with taxes, manage projects and clients, determine rates, and create winning proposals.

The Firmware Handbook

The world still needs heroes. Are you with us? Enter the first-ever original novel for Overwatch, the worldwide gaming sensation from Blizzard Entertainment!

Newark Electronics

Embedded Firmware Solutions is the perfect introduction and daily-use field guide--for the thousands of firmware designers, hardware engineers, architects, managers, and developers--to Intel's new firmware direction (including Quark coverage), showing how to integrate Intel® Architecture designs into their plans. Featuring hands-on examples and exercises using Open Source codebases, like Coreboot and EFI Development Kit (tianocore) and Chromebook, this is the first book that combines a timely and thorough overview of firmware solutions for the rapidly evolving embedded ecosystem with in-depth coverage of requirements and

optimization.

Quick Guide for Using External Memory Card to Increase Internal Storage Space of Android Devices

Platform Embedded Security Technology Revealed is an in-depth introduction to Intel's platform embedded solution: the security and management engine. The engine is shipped inside most Intel platforms for servers, personal computers, tablets, and smartphones. The engine realizes advanced security and management functionalities and protects applications' secrets and users' privacy in a secure, light-weight, and inexpensive way. Besides native built-in features, it allows third-party software vendors to develop applications that take advantage of the security infrastructures offered by the engine. Intel's security and management engine is technologically unique and significant, but is largely unknown to many members of the tech communities who could potentially benefit from it. Platform Embedded Security Technology Revealed reveals technical details of the engine. The engine provides a new way for the computer security industry to resolve critical problems resulting from booming mobile technologies, such as increasing threats against confidentiality and privacy. This book describes how this advanced level of protection is made possible by the engine, how it can improve users' security experience, and how third-party vendors can make use of it. It's written for computer security professionals and researchers; embedded system engineers; and software engineers and vendors who are interested in developing new security applications on top of Intel's security and management engine. It's also written for advanced users who are interested in understanding how the security features of Intel's platforms work.

Architecting for Scale

Kali Linux Cookbook - Second Edition

Asian Sources Electronics

Solid State Drives (SSDs) are gaining momentum in enterprise and client applications, replacing Hard Disk Drives (HDDs) by offering higher performance and lower power. In the enterprise, developers of data center server and storage systems have seen CPU performance growing exponentially for the past two decades, while HDD performance has improved linearly for the same period. Additionally, multi-core CPU designs and virtualization have increased randomness of storage I/Os. These trends have shifted performance bottlenecks to enterprise storage systems. Business critical applications such as online transaction processing, financial data processing and database mining are increasingly limited by storage performance. In client applications, small mobile platforms are leaving little room for batteries while demanding long life out of them. Therefore, reducing both idle and active power consumption has become critical. Additionally, client storage systems are in need of significant performance improvement as well as supporting small robust form factors. Ultimately, client systems are optimizing for

best performance/power ratio as well as performance/cost ratio. SSDs promise to address both enterprise and client storage requirements by drastically improving performance while at the same time reducing power. Inside Solid State Drives walks the reader through all the main topics related to SSDs: from NAND Flash to memory controller (hardware and software), from I/O interfaces (PCIe/SAS/SATA) to reliability, from error correction codes (BCH and LDPC) to encryption, from Flash signal processing to hybrid storage. We hope you enjoy this tour inside Solid State Drives.

Fujifilm X100S

As we all know, there are many Android phones are facing low internal memory issue when installing games and apps. This problem is especially serious in budget phones because most of these phones have little memory; for example, some Android phones only have 4G memory. If you are running insufficient storage space on your Android phone, you can expand and increase internal memory through several different methods. The common methods that can help to increase internal storage space of android. Method 1. Turn to cloud storage Method 2. Use USB OTG storage Method 3. Delete unwanted Apps and clean all the history and cache Method 4. Use Memory card to increase internal storage space of Android device. Method 5. Use Terminal Emulator App Method 6. Use Mounts2SD App Methods 7: Install and Run GOM Saver to Increase Storage Space on Android Phone Method 8: Install Root External 2 Internal SD App In this report I will investigate the possible methods that can be used to increase the internal storage of Android device. I will also show how to troubleshoot and solve certain problem that we get when having Android devices. The report consists from the following parts: 1. Turning to cloud storage. 2. Using USB OTG storage. 3. Deleting unwanted Apps and clean all the history and cache. 4. How to root an android device. 5. Using external memory card to increase internal storage space of Android device. 6. Using Apps2SD App. 7. How to partition and format disks in windows using Diskpart tool. 8. Using Terminal Emulator App 9. How to transfer your Google Authenticator 2FA to a new phone. 10. How to install the ADB Driver on your Windows PC to communicate with an android device. 11. Installing Init.d, Busybox and mound2SD Apps on an Android device to increase the internal memory. 12. How to unlock the boot loader via fastboot on Android. 13. Installing TWRP custom recovery on an android device. 14. Installing ClockworkMod CWM recovery on an android phone. 15. Installing GOM Saver to increase storage space on Android device. 16. Installing Root External 2 Internal SD APK. 17. Installing Custom Rom. 18. How to recover your deleted Whatsapp messages. 19. How to backup Android devices personal data. 20. How to root the Samsung GT-S5310 using Odin flash tool: 21. How to root the Samsung Galaxy A7 (SM-A700FD) 22. How to flash the Samsung Galaxy A7 (SM-A700FD) with firmware file. 23. How to root Galaxy A7 [A700FD] and install TWRP Recovery 24. How to root the Android device using Magisk 25. How to use Magisk to hide the root for Apps that cant accept to be installed in rooted devices

The British Journal of Photography

Whether you're a veteran or an absolute n00b, this is the best place to start with Kali Linux, the security professional's platform of choice, and a truly industrial-grade, and world-class operating system distribution-mature, secure, and

enterprise-ready.

Learning IoT with Particle Photon and Electron

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Starting Your Career as a Freelance Web Designer

Every day, companies struggle to scale critical applications. As traffic volume and data demands increase, these applications become more complicated and brittle, exposing risks and compromising availability. This practical guide shows IT, devops, and system reliability managers how to prevent an application from becoming slow, inconsistent, or downright unavailable as it grows. Scaling isn't just about handling more users; it's also about managing risk and ensuring availability. Author Lee Atchison provides basic techniques for building applications that can handle huge quantities of traffic, data, and demand without affecting the quality your customers expect. In five parts, this book explores:

- Availability: learn techniques for building highly available applications, and for tracking and improving availability going forward
- Risk management: identify, mitigate, and manage risks in your application, test your recovery/disaster plans, and build out systems that contain fewer risks
- Services and microservices: understand the value of services for building complicated applications that need to operate at higher scale
- Scaling applications: assign services to specific teams, label the criticalness of each service, and devise failure scenarios and recovery plans
- Cloud services: understand the structure of cloud-based services, resource allocation, and service distribution

Android Hacker's Handbook

Develop applications on one of the most popular platforms for IoT using Particle

Photon and Electron with this fast-paced guide About This Book Get an introduction to IoT architecture, command-line build tools and applications of IoT devices and sensors Design and develop connected IoT applications using Particle Photon and Electron in a step-by-step manner, gaining an entry point into the field of IoT Get tips on troubleshooting IoT applications Who This Book Is For This book is for developers, IoT enthusiasts and hobbyists who want to enhance their knowledge of IoT machine-to-machine architecture using Particle Photon and Electron, and implement cloud-based IoT projects. What You Will Learn Setup the Particle Photon and Electron on the cloud using the command-line tools Build and deploy applications on the Photon and Electron using the Web-based IDE Setup a local cloud server to interact with Particle Photon and Electron Connect various components and sensors to Particle Photon and Electron Tinker with the existing firmware and deploy a custom firmware on the Photon and Electron Setup communication between two or more Particle Photon and Electron Debug and troubleshoot Particle Photon and Electron projects Use webhooks to communicate with various third-party server applications In Detail IoT is basically the network of physical devices, vehicles, buildings and other items—embedded with electronics, software, sensors, actuators, and network connectivity that enable these objects to collect and exchange data.. The number of connected devices is growing rapidly and will continue to do so over years to come. By 2020, there will be more than 20 billion connected devices and the ability to program such devices will be in high demand. Particle provides prototyping boards for IoT that are easy to program and deploy. Most importantly, the boards provided by Particle can be connected to the Internet very easily as they include Wi-Fi or a GSM module. Starting with the basics of programming Particle Photon and Electron, this book will take you through setting up your local servers and running custom firmware, to using the Photon and Electron to program autonomous cars. This book also covers in brief a basic architecture and design of IoT applications. It gives you an overview of the IoT stack. You will also get information on how to debug and troubleshoot Particle Photon and Electron and set up your own debugging framework for any IoT board. Finally, you'll tinker with the firmware of the Photon and Electron by modifying the existing firmware and deploying them to your boards. By the end of this book, you should have a fairly good understanding of the IoT ecosystem and you should be able to build standalone projects using your own local server or the Particle Cloud Server. Style and approach This project-based guide contains easy-to-follow steps to program Particle Photon and Electron. You will learn to build connected applications with the help of projects of increasing complexity, and with each project, a new concept in IoT is taught.

The Mobile Application Hacker's Handbook

The Car Hacker's Handbook

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.

Standard & Poor's Stock Reports

Discover the fundamental concepts of object-relational mapping (ORM) design, Aurelius' basic features, and the practical applications of those features. In a series of tasks, you will be exposed to techniques and best practices that make the use of Aurelius easy and efficient. Furthermore, you'll refine your analytical skills to sharpen your understanding of Delphi (Pascal), helping you write better code along the way. Introducing Delphi ORM explains that while database design is difficult, database programming (i.e., manipulating, extracting, filtering, and manipulating data) is even more difficult. ORM frameworks provide a simpler way for you to access and manage data in databases. You'll see how they offer different levels of abstraction and tools to code data access in a database-agnostic way by introducing a layer between the application and the data access language (SQL, LINQ, and so on). By the end of the book, you will be confident in using a wide range of Aurelius features to allow you to get started with databases in a very short space of time. What You Will Learn Gain the fundamentals of ORM frameworks and Aurelius for Delphi Achieve basic tasks, such as connecting to the database and adding, deleting, and updating records, using Aurelius Employ advanced database queries Use the TAureliusDataSet component Integrate with mobile platforms such as Android and iOS Work with the data modeler application Who This Book Is For Software developers starting with Aurelius or those who have some exposure to the framework.

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