

XBee® Wi-Fi RF Module



WiFi RF Modules by Digi International
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Digi International Xbee Manual

Aleksander Nawrat,Zygmunt Kuś



Digi International Xbee Manual:

The Hands-on XBEE Lab Manual Jonathan A Titus, 2012-07-02 Get the practical knowledge you need to set up and deploy XBee modules with this hands on step by step series of experiments The Hands on XBee Lab Manual takes the reader through a range of experiments using a hands on approach Each section demonstrates module set up and configuration explores module functions and capabilities and where applicable introduces the necessary microcontrollers and software to control and communicate with the modules Experiments cover simple setup of modules establishing a network of modules identifying modules in the network and some sensor interface designs This book explains in practical terms the basic capabilities and potential uses of XBee modules and gives engineers the know how that they need to apply the technology to their networks and embedded systems Jon Titus KZ1G is a Freelance technical writer editor and designer based in Herriman Utah USA and previously editorial director at Test enables you to get up and running quickly with step by step tutorials Provides insight into the product data sheets saving you time and helping you get straight to the information you need Includes troubleshooting and testing information plus downloadable configuration files and fully documented source code to illustrate and explain operations

Vision Based Systems for UAV Applications Aleksander Nawrat, Zygmunt Kuś, 2013-12-06 This monograph is motivated by a significant number of vision based algorithms for Unmanned Aerial Vehicles UAV that were developed during research and development projects Vision information is utilized in various applications like visual surveillance aim systems recognition systems collision avoidance systems and navigation This book presents practical applications examples and recent challenges in these mentioned application fields The aim of the book is to create a valuable source of information for researchers and constructors of solutions utilizing vision from UAV Scientists researchers and graduate students involved in computer vision image processing data fusion control algorithms mechanics data mining navigation and IC can find many valuable useful and practical suggestions and solutions The latest challenges for vision based systems are also presented

New Contributions in Information Systems and Technologies Alvaro Rocha, Ana Maria Correia, Sandra Costanzo, Luis Paulo Reis, 2015-03-25 This book contains a selection of articles from The 2015 World Conference on Information Systems and Technologies WorldCIST 15 held between the 1st and 3rd of April in Funchal Madeira Portugal a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges of modern Information Systems and Technologies research technological development and applications The main topics covered are Information and Knowledge Management Organizational Models and Information Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Human Computer Interaction Health Informatics Information Technologies in Education Information Technologies in Radio communications

Mechanical Engineering, Materials and Energy II Sally

Gao,Tina Hu,2013-01-11 Selected peer reviewed papers from the 2nd International Conference on Mechanical Engineering Materials and Energy ICMEME 2012 October 26 27 2012 Dalian China **Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino** Charles Bell,2020-06-25 Build sensor networks with Python and MicroPython using XBee radio modules Raspberry Pi and Arduino boards This revised and updated edition will put all of these together to form a sensor network and show you how to turn your Raspberry Pi into a MySQL database server to store your sensor data You ll review the different types of sensors and sensor networks along with new technology including how to build a simple XBee network You ll then walk through building an sensor nodes on the XBee Raspberry Pi and Arduino and also learn how to collect data from multiple sensor nodes The book also explores different ways to store sensor data including writing to an SD card sending data to the cloud and setting up a Raspberry Pi MySQL server to host your data You ll even learn how to connect to and interact with a MySQL database server directly from an Arduino Finally you ll see how to put it all together by connecting your sensor nodes to your new Raspberry Pi database server If you want to see how well XBee Raspberry Pi and Arduino can get along especially to create a sensor network then Beginning Sensor Networks with XBee Raspberry Pi and Arduino is just the book you need What You ll Learn Code your sensor nodes with Python and MicroPython Work with new XBee 3 modules Host your data on Raspberry Pi Get started with MySQL Create sophisticated sensor networks Who This Book Is For Those interested in building or experimenting with sensor networks and IoT solutions including those with little or no programming experience A secondary target includes readers interested in using XBee modules with Raspberry Pi and Arduino those interested in controlling XBee modules with MicroPython **XBee Wi-Fi Development Workshop** Agus Kurniawan, This book explores how to work with XBee Wi Fi programming using Python The following is a highlight topic list Preparing Development Environment Setting up XBee Wi Fi on Computer XBee Wi Fi AT Command XBee Wi Fi Programming XBee Wi Fi Digital I O and ADC Working with Sleep Mode XBee Wi Fi Networking XBee Wi Fi Cloud XBee Wi Fi and Arduino

International Conference on Advancements of Medicine and Health Care through Technology; 12th - 15th October 2016, Cluj-Napoca, Romania Simona Vlad,Nicolae Marius Roman,2017-03-15 This volume presents the contributions of the fifth International Conference on Advancements of Medicine and Health Care through Technology Meditech 2016 held in in Cluj Napoka Romania The papers of this Proceedings volume present new developments in Health Care Technology Medical Devices Measurement and Instrumentation Medical Imaging Image and Signal Processing Modeling and Simulation Molecular Bioengineering Biomechanics **Green, Pervasive, and Cloud Computing** Rodrigo Miani,Lasaro Camargos,Bruno Zarpelão,Erika Rosas,Rafael Pasquini,2019-05-17 This book constitutes the proceedings of the 14th International Conference on Green Pervasive and Cloud Computing GPC 2019 held in Uberlndia Brazil in May 2019 The 17 full papers included in this volume were carefully reviewed and selected from 38 initial submissions They are organized in the following topical sections machine learning Internet of Things and mobility cloud and related technologies **Building**

Wireless Sensor Networks Robert Faludi, 2010-12-14 Get ready to create distributed sensor systems and intelligent interactive devices using the ZigBee wireless networking protocol and Series 2 XBee radios By the time you're halfway through this fast-paced hands-on guide you'll have built a series of useful projects including a complete ZigBee wireless network that delivers remotely sensed data Radio networking is creating revolutions in volcano monitoring performance art clean energy and consumer electronics As you follow the examples in each chapter you'll learn how to tackle inspiring projects of your own This practical guide is ideal for inventors hackers crafters students hobbyists and scientists Investigate an assortment of practical and intriguing project ideas Prep your ZigBee toolbox with an extensive shopping list of parts and programs Create a simple working ZigBee network with XBee radios in less than two hours for under 100 Use the Arduino open source electronics prototyping platform to build a series of increasingly complex projects Get familiar with XBee's API mode for creating sensor networks Build fully scalable sensing and actuation systems with inexpensive components Learn about power management source routing and other XBee technical nuances Make gateways that connect with neighboring networks including the Internet

The Hands-on Intel Edison Manual Lab Agus Kurniawan, Intel Edison development platform is the first in a series of low cost general purpose compute platforms and companies working in the Internet of Things IoT and Wearable Computing This book helps you how to get started with Intel Edison development with Intel Edison kit for Arduino using Python C C++ and Node.js The following is a list of highlight topics Preparing Development Environment Yocto Embedded Linux based OS Working with Arduino IDE Software Intel Edison I/O Programming GPIO Analog I/O PWM UART SPI I2C TWI Bluetooth Low Energy BLE and iBeacon Working with XBee IEEE 802.15.4

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