

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology)

By Fred Eady

Download now

Read Online

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady

Wireless networking is poised to have a massive impact on communications, and the 802.11 standard is to wireless networking what Ethernet is to wired networking. There are already over 50 million devices using the dominant IEEE 802.11 (essentially wireless Ethernet) standard, with astronomical growth predicted over the next 10 years. New applications are emerging every day, with wireless capability being embedded in everything from electric meters to hospital patient tracking systems to security devices.

This practical reference guides readers through the wireless technology forest, giving them the knowledge, the hardware and the software necessary to design a wireless embedded device rapidly, inexpensively, and effectively. Using off-the-shelf microcontrollers from Microchip and Atmel, the author provides step-by-step instructions for designing the hardware and firmware for a fully operational wireless networking device. The book gives a thorough introduction to 802.11 technology and puts it into perspective against the other wireless standard options. Just enough theory and mathematics is provided to give the depth of understanding needed for practical design work.

The book thoroughly covers:
* Laptop wireless Ethernet card introduction and theory
*Introduction to CompactFlash-to-microcontroller interfacing
* Implementing the laptop wireless Ethernet card in an embedded environment

- Covers the hottest new embedded market area- wireless networking
- Shows designers how to save money and time by using microcontrollers in their embedded wireless designs instead of expensive, complex prefab boards

Download Implementing 802.11 with Microcontrollers: Wireles ...pdf

Read Online Implementing 802.11 with Microcontrollers: Wirel ...pdf

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology)

By Fred Eady

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady

Wireless networking is poised to have a massive impact on communications, and the 802.11 standard is to wireless networking what Ethernet is to wired networking. There are already over 50 million devices using the dominant IEEE 802.11 (essentially wireless Ethernet) standard, with astronomical growth predicted over the next 10 years. New applications are emerging every day, with wireless capability being embedded in everything from electric meters to hospital patient tracking systems to security devices.

This practical reference guides readers through the wireless technology forest, giving them the knowledge, the hardware and the software necessary to design a wireless embedded device rapidly, inexpensively, and effectively. Using off-the-shelf microcontrollers from Microchip and Atmel, the author provides step-by-step instructions for designing the hardware and firmware for a fully operational wireless networking device. The book gives a thorough introduction to 802.11 technology and puts it into perspective against the other wireless standard options. Just enough theory and mathematics is provided to give the depth of understanding needed for practical design work.

The book thoroughly covers:
* Laptop wireless Ethernet card introduction and theory
*Introduction to CompactFlash-to-microcontroller interfacing
* Implementing the laptop wireless Ethernet card in an embedded environment

- Covers the hottest new embedded market area- wireless networking
- Shows designers how to save money and time by using microcontrollers in their embedded wireless designs instead of expensive, complex prefab boards

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady Bibliography

- Sales Rank: #3322589 in Books
- Brand: Brand: Newnes
- Published on: 2005-09-16
- Released on: 2005-09-01
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .89" w x 7.50" l, 1.85 pounds
- Binding: Paperback
- 400 pages

Download Implementing 802.11 with Microcontrollers: Wireles ...pdf

Read Online Implementing 802.11 with Microcontrollers: Wirel ...pdf

Download and Read Free Online Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady

Editorial Review

Review
“The world needs this book!” -Lewin Edwards, embedded engineer and author

About the Author
As an engineering consultant, Fred Eady has implemented communications networks for the space program and designed hardware and firmware for the medical, retail and public utility industries. He currently writes a monthly embedded design column for a popular electronics enthusiast magazine. Fred also composes monthly articles for a popular robotics magazine. Fred has been dabbling in electronics for over 30 years. His embedded design expertise spans the spectrum and includes Intel’s 8748 and 8051 microcontrollers, the entire Microchip PIC microcontroller family and the Atmel AVR microcontrollers. Fred recently retired from his consulting work and is focused on writing magazine columns and embedded design books.

Users Review

From reader reviews:

Frederick Warren:

Book is usually written, printed, or illustrated for everything. You can realize everything you want by a e-book. Book has a different type. As you may know that book is important matter to bring us around the world. Alongside that you can your reading expertise was fluently. A book Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) will make you to be smarter. You can feel considerably more confidence if you can know about everything. But some of you think that open or reading a book make you bored. It's not make you fun. Why they might be thought like that? Have you looking for best book or appropriate book with you?

Joan Myers:

Reading a book to get new life style in this 12 months; every people loves to study a book. When you examine a book you can get a lots of benefit. When you read textbooks, you can improve your knowledge, due to the fact book has a lot of information in it. The information that you will get depend on what kinds of book that you have read. In order to get information about your study, you can read education books, but if you want to entertain yourself look for a fiction books, this sort of us novel, comics, as well as soon. The Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) will give you new experience in reading a book.

John Street:

Is it you who having spare time after that spend it whole day by watching television programs or just lying down on the bed? Do you need something totally new? This Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) can be the solution, oh how

comes? A fresh book you know. You are and so out of date, spending your time by reading in this completely new era is common not a nerd activity. So what these books have than the others?

Brenda Burrows:

You may get this Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) by visit the bookstore or Mall. Merely viewing or reviewing it could possibly to be your solve difficulty if you get difficulties for your knowledge. Kinds of this book are various. Not only by simply written or printed but can you enjoy this book by means of e-book. In the modern era just like now, you just looking by your mobile phone and searching what their problem. Right now, choose your current ways to get more information about your e-book. It is most important to arrange you to ultimately make your knowledge are still revise. Let's try to choose suitable ways for you.

Download and Read Online Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady #QCPBVZEHSRJ

Read Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady for online ebook

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady books to read online.

Online Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady ebook PDF download

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady Doc

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady Mobipocket

Implementing 802.11 with Microcontrollers: Wireless Networking for Embedded Systems Designers (Embedded Technology) By Fred Eady EPub