



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

Fred Eady

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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

In addition, the book includes access to a companion website containing all of the code, schematics and programs necessary to implement embedded 802.11 wireless networking.

- * 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
- * Companion website accompanying book contains all the code, schematics and programs necessary to get started now!

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