



# Inside Bluetooth Low Energy (Artech House Mobile Communications)

*By Naresh Gupta*

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**Inside Bluetooth Low Energy (Artech House Mobile Communications)** By Naresh Gupta

Bluetooth Low Energy (LE) is one of the latest enhancement to Bluetooth technology and, as the name suggests, it is aimed at ultra low power devices, such as heart rate monitors, thermometers, and sensors. Due to very low power consumption, devices compliant with this standard can operate for several years on coin cell batteries without the need for recharging. This cutting-edge book helps you understand the whats , whys , and hows of Bluetooth LE. It includes a broad view of the technology, identifies the various building blocks, and explains how they come together. You also find discussions on Bluetooth basics, providing the background information needed to master Bluetooth LE.

The book explains the architecture of Bluetooth LE stack and the functionality provided by each of the layers. You find expert guidance in setting up your own system in a quick and efficient manner with inexpensive, easily available hardware and just a couple of PCs running Linux. This unique volume features two chapters that are dedicated to writing application programs. They explain how to build basic Bluetooth and Bluetooth Low Energy applications using the various building blocks. You also find detailed and easily understandable presentations of real-world applications that can be used as a starting point for your projects in the field. Moreover, the book included several tips and tricks on debugging Bluetooth applications. Additionally, this practical reference features exercises, sniffer air captures, message sequence charts and sample programs to help you get a first-hand feel of how the technology works.

Contents: Introduction. Background of Bluetooth. Bluetooth Lower Layers. Bluetooth Upper Layers and Profiles. Getting the Hands Wet. Bluetooth Low Energy Fundamentals. Physical Layer. Link Layer. Host Controller Interface and Commands. Logical Link Control and Adaptation Protocol (L2CAP). Security Manager (SM). Attribute Protocol (ATT). Generic Attribute Profile (GATT). Generic Access Profile (GAP). GATT Based Profiles. Developing LE Applications, Testing and Qualification. Glossary of Acronyms and Important Terms.

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#### **About the Author**

Naresh Gupta has nearly two decades of industry experience, including working as a design manager for close to 9 years in the Connectivity Business Unit of STMicroelectronics and ST Ericsson. He is currently in a senior management position with another multi-national technology company. He holds a B.S. in computer engineering from the Delhi College of Engineering, India and an M.B.A. in operations management.

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