

IoT

AT commands 2.0:
Set Quectel EC25-E
up for eSIM

```
AT+CGDCONT=1,"IP","terminal.apn"
```

```
Response
```

```
OK
```

```
AT+QCFG="bip/auth",1
```

```
Response
```

```
OK
```

```
AT+CGACT=1
```

```
Response
```

```
OK
```

At Commands Quectel

M Woodhall



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LTE Cellular Narrowband Internet of Things (NB-IoT) Hossam Fattah, 2021-04-28 NB IoT is the Internet of Things IoT technology used for cellular communication NB IoT devices deliver much better capability and performance such as increased area coverage of up to one kilometer a massive number of devices up to 200 000 per a single base station area longer battery lifetime of ten years and better indoor and outdoor coverage for areas with weak signal such as underground garages The cellular NB IoT technology is a challenging technology to use and understand With more than 30 projects presented in this book covering many use cases and scenarios this book provides hands on and practical experience of how to use the cellular NB IoT for smart applications using Arduino™ Amazon Cloud Google Maps and charts The book starts by explaining AT commands used to configure the NB IoT modem data serialization and deserialization how to set up the cloud for connecting NB IoT devices setting up rules policy security certificates and a NoSQL database on the cloud how to store and read data in the cloud how to use Google Maps to visualize NB IoT device geo location and how to use charts to visualize sensor datasets Projects for Arduino are presented in four parts The first part explains how to connect the device to the mobile operator and cellular network perform communication using different network protocols such as TCP HTTP SSL or MQTT how to use GPS for geo location applications and how to upgrade NB IoT modem firmware over the air The second part explains the microcontroller unit and how to build and run projects such as a 7 segment display or a real time clock The third part explains how NB IoT can be used with sensor devices such as ultrasonic and environmental sensors Finally the fourth part explains how NB IoT can be used to control actuators such as stepper motors and relays This book is a unique resource for understanding practical uses of the NB IoT technology and serves as a handbook for technical and non technical readers who are looking for practicing and exercising the cellular NB IoT technology The book can be used by engineers students researchers system integrators mobile operators technical staff and electronics enthusiasts To download the software which can be used with the book go to <https://github.com/5ghub/NB-IoT> About the Author Hossam Fattah is a technology expert in 4G 5G wireless systems and networking He received his Ph D in Electrical and Computer Engineering from University of British Columbia Vancouver Canada in 2003 He received his Master of Applied Science in Electrical and Computer Engineering from University of Victoria Victoria Canada in 2000 He completed his B Sc degree in Computers and Systems Engineering from Al Azhar University Cairo Egypt in 1995 Between 2003 and 2011 he was in academia and industry including Texas A M University Between 2011 and 2013 he was with Spirent Communications NJ USA Since 2013 he has been with Microsoft USA He is also an affiliate associate professor at University of Washington Tacoma WA USA teaching graduate courses on IoT and distributed systems and collaborating on 5G research and innovations He has had many patents and technical publications in conferences and journals He is a registered professional Engineer with the Association of Professional Engineers British Columbia Canada He is the author of the recent book 5G LTE Narrowband Internet of Things

NB IoT His research interest is in wireless communications and radio networks and protocols cellular quality of service radio resource management traffic and packet scheduling network analytics and mobility

Fundamentals of Internet of Things F. John Dian,2022-11-11 FUNDAMENTALS OF INTERNET OF THINGS Fundamentals of Internet of Things For Students and Professionals teaches the principles of IoT systems It employs a systematic approach to explain IoT architecture models and their layers The textbook is arranged based on various layers of an architecture model For readers who are unfamiliar with the concept of data communication and networks the first chapter of this book covers the fundamentals of data communication and networks It can also be used as review material for those who are already familiar with the concept The book begins with many examples of IoT use cases to show readers how IoT can be applied to various IoT verticals The concept of smart sensors is then described as well as their applications in the IoT ecosystem Because internet connectivity is an essential part of any IoT system the book explores wired and wireless connectivity schemes including cellular IoT in the 4G and 5G eras IoT protocols analytics as well as IoT security and privacy are important topics that are explained in this book with simple explanations The last chapter of this book is dedicated to IoT solution development IoT is one of the most rapidly evolving technologies today and there is no better guide to this rapidly expanding sector than Fundamentals of Internet of Things IoT for Students and Professionals Features Simple explanations of complex concepts More than 300 exercise problems and advanced exercise questions Provided solutions for the exercise problems 10 practical IoT projects

NB-IoT Use Cases and Devices Kersten Heins,2021-12-09 This book presents the cellular wireless network standard NB IoT Narrow Band Internet of Things which addresses many key requirements of the IoT NB IoT is a topic that is inspiring the industry to create new business cases and associated products The author first introduces the technology and typical IoT use cases He then explains NB IoT extended network coverage and outstanding power saving features which are enabling the design of IoT devices e g sensors to work everywhere and for more than 10 years in a maintenance free way The book explains to industrial users how to utilize NB IoT features for their own IoT projects Other system ingredients e g IoT cloud services and embedded security aspects are covered as well The author takes an in depth look at NB IoT from an application engineering point of view focusing on IoT device design The target audience is technical minded IoT project owners and system design engineers who are planning to develop an IoT application

Arduino Sketches James A. Langbridge,2015-01-12 Master programming Arduino with this hands on guide *Arduino Sketches* is a practical guide to programming the increasingly popular microcontroller that brings gadgets to life Accessible to tech lovers at any level this book provides expert instruction on Arduino programming and hands on practice to test your skills You ll find coverage of the various Arduino boards detailed explanations of each standard library and guidance on creating libraries from scratch plus practical examples that demonstrate the everyday use of the skills you re learning Work on increasingly advanced programming projects and gain more control as you learn about hardware specific libraries and how to build your own Take

full advantage of the Arduino API and learn the tips and tricks that will broaden your skillset The Arduino development board comes with an embedded processor and sockets that allow you to quickly attach peripherals without tools or solders It s easy to build easy to program and requires no specialized hardware For the hobbyist it s a dream come true especially as the popularity of this open source project inspires even the major tech companies to develop compatible products Arduino Sketches is a practical comprehensive guide to getting the most out of your Arduino setup You ll learn to Communicate through Ethernet WiFi USB Firmata and Xbee Find import and update user libraries and learn to create your own Master the Arduino Due Esplora Yun and Robot boards for enhanced communication signal sending and peripherals Play audio files send keystrokes to a computer control LED and cursor movement and more This book presents the Arduino fundamentals in a way that helps you apply future additions to the Arduino language providing a great foundation in this rapidly growing project If you re looking to explore Arduino programming Arduino Sketches is the toolbox you need to get started

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