

BeagleBoard-xM details

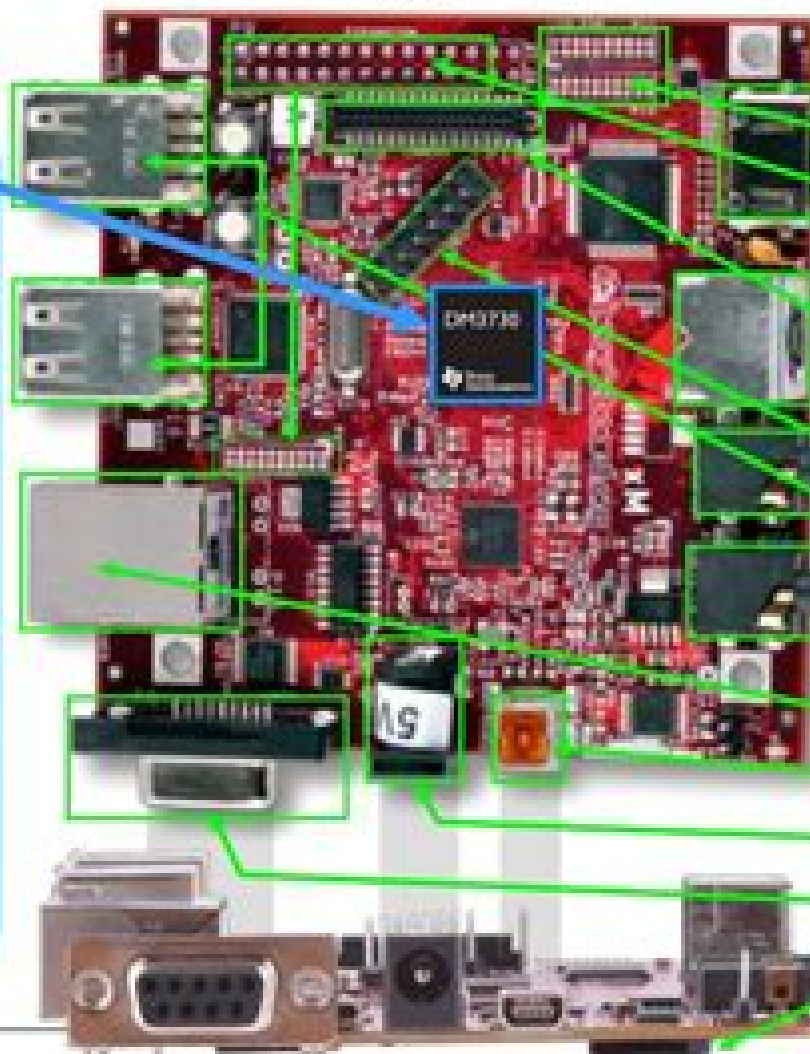
Laptop-like performance

3.35"***

Desktop-style USB peripherals and embedded style expansion

DM3730 processor (AM37x-compatible)

- 1GHz superscaler ARM[®] Cortex[™]-A8
- More than 2,000 Dhrystone MIPS
- Up to 20 Million polygons per sec graphics
- 512KB L2\$
- 512MB LPDDR RAM
- HD video capable C64x+[™] DSP core



- LCD Expansion
- I²C, I²S, SPI, MMC/SD Expansion
- DVI-D
- Camera Header
- S-Video
- JTAG
- 4-port USB 2.0 Hub
- Stereo Out
- Stereo In
- 10/100 Ethernet
- USB 2.0 HS OTG
- Alternate Power
- RS-232 Serial
- microSD Slot

Beagleboard Xm Expansion Header

Hunyue Yau



Beagleboard Xm Expansion Header:

Hacking and Penetration Testing with Low Power Devices Philip Polstra, 2014-09-02 Hacking and Penetration Testing with Low Power Devices shows you how to perform penetration tests using small low powered devices that are easily hidden and may be battery powered. It shows how to use an army of devices costing less than you might spend on a laptop from distances of a mile or more. Hacking and Penetration Testing with Low Power Devices shows how to use devices running a version of The Deck, a full featured penetration testing and forensics Linux distribution, and can run for days or weeks on batteries due to their low power consumption. Author Philip Polstra shows how to use various configurations including a device the size of a deck of cards that can easily be attached to the back of a computer. While each device running The Deck is a full featured pen testing platform connecting systems together via 802.15.3 networking gives you even more power and flexibility. This reference teaches you how to construct and power these devices, install operating systems, and fill out your toolbox of small low power devices with hundreds of tools and scripts from the book's companion website. Hacking and Penetration Testing with Low Power Devices puts all these tools into your hands and will help keep you at the top of your game performing cutting edge pen tests from anywhere in the world. Understand how to plan and execute an effective penetration test using an army of low power devices. Learn how to configure and use open source tools and easy to construct low power devices. Leverage IEEE 802.15.4 networking to perform penetration tests from up to a mile away or use 802.15.4 gateways to perform pen tests from anywhere in the world. Access penetration testing operating systems with hundreds of tools and scripts on the book's companion web site.

Embedded Android Karim Yaghmour, 2013-03-15 Embedded Android is for Developers wanting to create embedded systems based on Android and for those wanting to port Android to new hardware or creating a custom development environment. Hackers and moders will also find this an indispensable guide to how Android works.

Learning BeagleBone Hunyue Yau, 2014-12-24 This book is for new BeagleBone owners who are looking to quickly get their microboard up and running. It would be helpful to have an understanding of embedded concepts or Linux but neither is essential.

Exploring BeagleBone Derek Molloy, 2019-01-07 In depth instruction and practical techniques for building with the BeagleBone embedded Linux platform. Exploring BeagleBone is a hands on guide to bringing gadgets, gizmos, and robots to life using the popular BeagleBone embedded Linux platform. Comprehensive content and deep detail provide more than just a BeagleBone instruction manual; you'll also learn the underlying engineering techniques that will allow you to create your own projects. The book begins with a foundational primer on essential skills and then gradually moves into communication control and advanced applications using C/C++ allowing you to learn at your own pace. In addition, the book's companion website features instructional videos, source code, discussion forums, and more to ensure that you have everything you need. The BeagleBone's small size, high performance, low cost, and extreme adaptability have made it a favorite development platform, and the Linux software base allows for complex yet flexible functionality. The BeagleBone has

applications in smart buildings robot control environmental sensing to name a few and expansion boards and peripherals dramatically increase the possibilities Exploring BeagleBone provides a reader friendly guide to the device including a crash course in computer engineering While following step by step you can Get up to speed on embedded Linux electronics and programming Master interfacing electronic circuits buses and modules with practical examples Explore the Internet connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications including video and sound Explore the BeagleBone s Programmable Real Time Controllers Updated to cover the latest Beagle boards Linux kernel versions and Linux software releases Includes new content on Linux kernel development the Linux Remote Processor Framework CAN bus IoT frameworks and much more Hands on learning helps ensure that your new skills stay with you allowing you to design with electronics modules or peripherals even beyond the BeagleBone Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone the practical handbook for the popular computing platform

Internet of Things Qusay F. Hassan,Atta ur Rehman Khan,Sajjad A. Madani,2017-12-15 Internet of Things Challenges Advances and Applications provides a comprehensive introduction to IoT related technologies and common issues in the adoption of IoT on a large scale It surveys recent technological advances and novel solutions for challenges in the IoT environment Moreover it provides detailed discussion of the utilization of IoT and its underlying technologies in critical application areas such as smart grids healthcare insurance and the automotive industry The chapters of this book are authored by several international researchers and industry experts This book is composed of 18 self contained chapters that can be read based on interest Features Introduces IoT including its history common definitions underlying technologies and challenges Discusses technological advances in IoT and implementation considerations Proposes novel solutions for common implementation issues Explores critical application domains including large scale electric power distribution networks smart water and gas grids healthcare and e Health applications and the insurance and automotive industries The book is an excellent reference for researchers and post graduate students working in the area of IoT or related areas It also targets IT professionals interested in gaining deeper knowledge of IoT its challenges and application areas

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