



QuickStart Guide www.logicpd.com

ZOOM OMAP34x-II MDP QuickStart Guide

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1 Introduction

Congratulations on your purchase of the Zoom[™] OMAP34x-II Mobile Development Platform (MDP). The Zoom OMAP34x-II MDP addresses essential needs of the open-source community and high-level operating system (HLOS) developers to speed software development for smartphones and Mobile Internet Devices (MIDs).

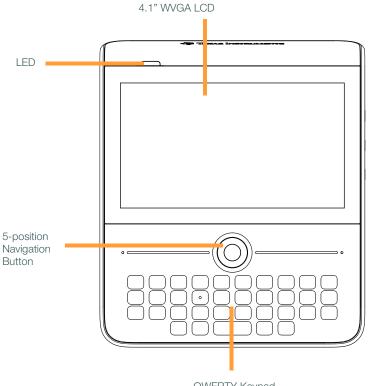
1.1 Development Platform Contents

The Zoom OMAP34x-II MDP includes the following items:

- +Handheld
 - +Integrated SOM-LV featuring Texas Instruments' OMAP3430 processor +4.1" WVGA LCD
 - +QWERTY keypad
- +Debug board
- +Power supply with US, UK, Japan, and Europe power adapters
- +USB A-to-Mini-B cable
- +QuickStart Guide

2 Feature Diagrams





QWERTY Keypad

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Figure 2.2 - Handheld Features (Bottom)

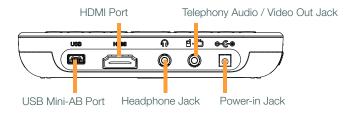
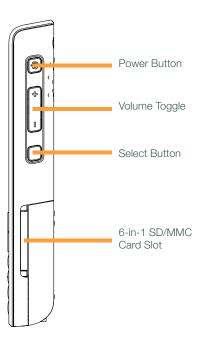
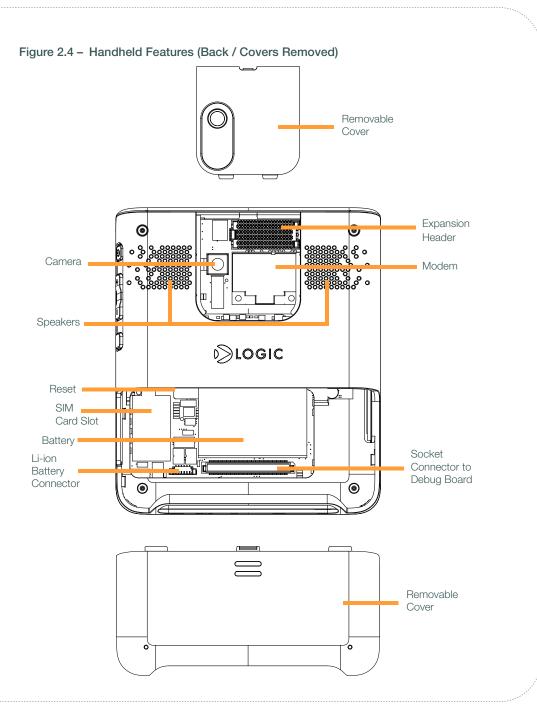


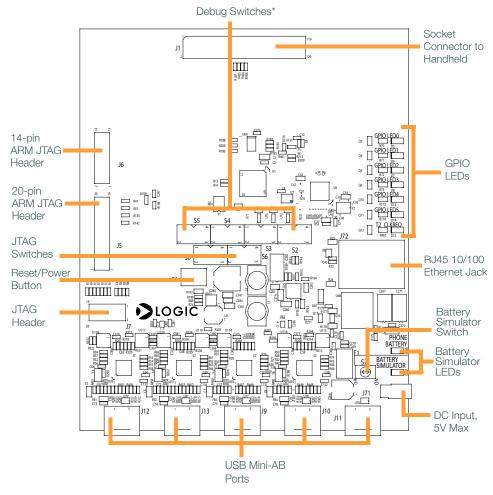
Figure 2.3 - Handheld Features (Side)





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*NOTE: Information about debug switch settings is silkscreened on the bottom of the debug board and can also be found in the debug board schematics.

3 Setup

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3.1 Connecting the Debug Board

To connect the debug board to the handheld:

- 1. Remove the bottom cover on the back of the handheld.
- 2. Align the keyed socket connector with the mating connector on the debug board (see Figure 2.4 and Figure 2.5 for connector locations).
- 3. Press down over the connectors.
- 4. Verify the connectors have mated properly.

IMPORTANT NOTE: The DC Input jack on the debug board can be used to power the handheld and the debug board for general use. However, using the DC Input jack on the debug board will not charge the handheld battery. Never have more than one power supply connected to the Zoom OMAP34x-II MDP at any given moment.

3.2 Getting to a U-Boot Prompt

- 1. Verify the debug board is connected to the handheld.
- 2. Make sure the power switch (S7) on the debug board is in the "OFF" position.
- 3. Connect the regulated 5V power supply to the appropriate power adapter for the region in which you are using the development platform.

Figure 3.1 - Connect Power Supply and Adapter



4. Plug the power adapter into an electrical outlet and the 5V line to the DC input connector on the debug board.

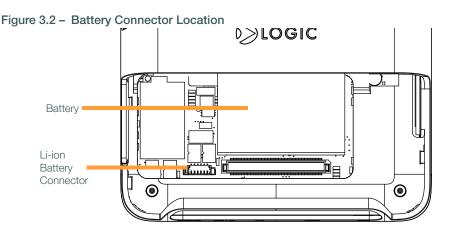
NOTE: Detailed instructions for Steps 5–10 can be found in a readme available on Logic's website (http://support.logicpd.com/downloads/1206/). Please refer to the readme if you encounter any difficulty with the following steps.

- 5. Download the FT2232 VCP driver from the FTDI website www.ftdichip.com/Drivers/VCP.htm
- 6. Connect the included USB cable to the USB mini-AB connector labeled J12 on the debug board and to a USB port on your development PC.
- 7. Windows should recognize your new hardware.
- 8. Open the Device Manager on your computer to determine what COM port number was assigned to the USB-to-Serial connection.
- Launch your terminal emulation program. (Although Logic does not support any particular terminal emulation program, we suggest using Tera Term Pro for Windows 2000 or XP, which can be downloaded from Logic's website at: http://support.logicpd.com/downloads/240/).
- 10. Open a new serial port connection in your terminal emulation program with the following settings:
 - +Port: COM port number found in Step 8 above
 - +Baud rate: 115200
 - +Data: 8-bit
 - +Parity: none
 - +Stop: 1-bit
 - +Flow control: none
- 11. Move the power switch (S7) on the debug board to the "ON" position. The handheld LED should display a blue light and then a red light. After the red light displays, a Zoom2 # U-Boot prompt should appear in your terminal emulation program.
- 12. You are now able to comunicate with your handheld.
- 13. Instructions for next steps or software updates and installs are available at http://www.omapzoom.org

3.3 Connecting the Battery

The handheld comes with an 1100 mAhr Li-ion battery installed, but not connected. Follow the steps below to connect the battery.

1. With the back of the handheld facing you, remove the bottom cover and locate the Li-ion battery connector on the baseboard PCB (see Figure 3.2).



- 2. Align the end of the battery cable over the connector and make sure the side-tabs of the connectors align properly.
- 3. Fully insert the connector.

3.4 Charging the Battery

The power supply included with the Zoom OMAP34x-II MDP can be used to charge the battery.

- 1. Connect the regulated 5V power supply to the appropriate power adapter for the region in which you are using the development platform.
- 2. Plug the power adapter into an electrical outlet and the 5V line output connector into the power-in jack on the bottom of the handheld (see Figure 2.2 for power-in jack location).

IMPORTANT NOTE: To charge the battery, update the U-Boot or X-Loader software to the latest version available from http://www.omapzoom.org. Once the software has been updated, you must connect the power supply to the power-in jack on the bottom of the handheld to charge the battery; plugging the power supply into the debug board will not charge the battery.

4 Product Notices

This development kit is intended for use for ENGINEERING DEVELOPMENT,

DEMONSTRATION, OR EVALUATION PURPOSES ONLY and is not considered by TI and Logic to be a finished end-product fit for general consumer use. Persons handling the product(s) must have electronics training and observe good engineering practice standards. As such, the goods being provided are not intended to be complete in terms of required design-, marketing-, and/or manufacturing-related protective considerations, including product safety and environmental measures typically found in end products that incorporate such semiconductor components or circuit boards. This development kit does not fall within the scope of the European Union directives regarding electromagnetic compatibility, restricted substances (RoHS), recycling (WEEE), FCC, CE or UL, and therefore may not meet the technical requirements of these directives or other related directives.

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The user assumes all responsibility and liability for proper and safe handling of the goods. Further, the user indemnifies TI and Logic from all claims arising from the handling or use of the goods. Due to the open construction of the product, it is the user's responsibility to take any and all appropriate precautions with regard to electrostatic discharge.

FCC Warning

This development kit is intended for use for **ENGINEERING DEVELOPMENT**,

DEMONSTRATION, OR EVALUATION PURPOSES ONLY and is not considered by TI and Logic to be a finished end-product fit for general consumer use. It generates, uses, and can radiate radio frequency energy and has not been tested for compliance with the limits of computing devices pursuant to part 15 of FCC rules, which are designed to provide reasonable protection against radio frequency interference. Operation of this equipment in other environments may cause interference with radio communications, in which case the user at his own expense will be required to take whatever measures may be required to correct this interference.

5 Support Resources

5.1 Register your Development Platform

Registration provides you access to the latest revision of this manual, as well as other documentation. In addition to downloads access, registration provides future notifications when Logic releases documentation updates for your product.

- 1. To register, visit the Logic Support website at www.logicpd.com/product-support and click on "Create Account".
- 2. Fill in the on-screen form and click the "Submit" button.
- 3. You will receive an e-mail with a URL link to confirm account creation. Click on the link to finalize account creation.
- You will be directed to a page on Logic's website that states "Account Activated". At this point you can register your product. Click on the link to "register your development kit and get access to downloads".
- 5. Fill in the on-screen form (all fields are required) and click the "Submit" button.
- 6. Your product is now registered. Click on the "Return to your Account Overview" link and you will see the list of registered products for your account.

Under the heading for "OMAP34x-II Zoom Mobile Development Platform", click the "All Downloads" link to access the downloads associated with your Zoom OMAP34x-II MDP.

5.2 Hardware Documentation

Logic provides additional documentation resources for the Zoom OMAP34x-II MDP. These additional resources are available as downloads from the "My Account" section of the Logic website. Click on the "Log In" link at the top of any www.logicpd.com web page and enter your username and password to access the downloads available for your product.

Additional documentation includes:

- +Handheld Schematics, Layout Files, & BOM
- +Debug Board Schematics, Layout Files, & BOM
- +Zoom OMAP34x-II MDP QuickStart Guide
- +White Papers, Application Notes, and Product Change Notifications (PCNs) as they become available

5.3 Software Resources

For information on the Zoom OMAP34x-II MDP software community, please visit: http://www.omapzoom.org

5.4 Warranty Statement

Please refer to the "Important Notice" enclosed with the Zoom OMAP34x-II MDP for warranty statements, RMA information, and other important notifications.

6 Revision History

REV	EDITOR	REVISION DESCRIPTION	APPROVAL	DATE
1 PN 1012154	JCA	Internal Release	_	12/03/08
2 PN 1012154	JCA	Initial Release	PM	12/04/08
3 PN 1012154	JCA	+Figure 2.4: Added SIM Card Slot location; +Added Figure 3.2; +Section 3.4: Added Important Note about charging battery	JCA & PM	12/22/08
A PN 1012686	JCA	+Updated introductory paragraph; +Changed nomenclature to "handheld" and "Zoom OMAP34x-II MDP"	JCA	02/12/09
B PN 1012912	JCA	+Figure 2.5: Updated component locations; +Section 3.2: Updated Important Note about charging battery; +Section 3.3: Added Important Note about DC Input connector on Debug Board.	JS	03/18/09
C PN 1013016	JCA	+Added Sections 5.1–5.3 under "Support Resources"	JS	04/07/09
D PN 1013514	JCA	+Added "Getting to a U-Boot Prompt" Section; +Moved the "Connecting the Battery" Section and "Connecting the Debug Board" Section to appropriate locations in the setup procedure	JCA & GLJ	07/06/09

Please check www.logicpd.com for the latest revision of this manual and other documentation.

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