

Asus AAEON BIO-ST02-C4M1 User Manual

Bio daughter board

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Summary of Contents for Asus AAEON BIO-ST02-C4M1

Page 1 BIO-ST02-C4M1 BIO Daughter Board User Manual 1 Last Updated: November 10, 2015...

<u>Page 2</u> Copyright Notice This document is copyrighted, 2015. All rights are reserved. The original manufacturer reserves the right to make improvements to the products described in this manual at any time without notice. No part of this manual may be reproduced, copied, translated, or transmitted in any form or by any means without the prior written permission of

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Page 3 Acknowledgement All other products' name or trademarks are properties of their respective owners. ® Microsoft Windows is a registered trademark of Microsoft Corp. [] ITE is a trademark of Integrated Technology Express, Inc. [] IBM, PC/AT, PS/2, and VGA are trademarks of International Business Machines []...

<u>Page 4</u> Packing List Before setting up your product, please make sure the following items have been shipped: Item Quantity BIO-ST02-C4M1 BIO Daughter Board [] Accessory kit [] COM cable [] If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

<u>Page 5</u> About this Document This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product. Users may refer to the AAEON.com for the latest version of this document.

<u>Page 6</u> Safety Precautions Please read the following safety instructions carefully. It is advised that you keep this manual for future references All cautions and warnings on the device should be noted. Make sure the power source matches the power rating of the device. Position the power cord so that people cannot step on it.

<u>Page 7</u> If any of the following situations arises, please the contact our service personnel: Damaged power cord or plug Liquid intrusion to the device iii. Exposure to moisture Device is not working as expected or in a manner as described in this manual The device is dropped or damaged Any obvious signs of damage displayed on the device...

<u>Page 8</u> FCC Statement This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

 Page 9
 China RoHS Requirements (CN)
 China CON
 China Constraint
 Calibria
 Calibria

Page 10 China RoHS Requirement (EN) Poisonous or Hazardous Substances or Elements in Products AAEON Main Board/ Daughter Board/ Backplane Poisonous or Hazardous Substances or Elements Hexavalent Polybrominated Polybrominated Component Lead Mercury Cadmium Chromium Biphenyls Diphenyl Ethers (Pb) (Hg) (Cd) (Cr(VI)) (PBB) (PBDE) PCB &...

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Page 13: Specifications

Specifications System PICO-ITX Form Factor [] BIO Interface 80-pin board to board connector [] DB9 for COM3 COM4 x 2 [] Pin Header for COM1, COM2 x 2 I/O Chipset F81216AD [] USB 2.0 USB 2.0 for rear I/O x 1 []...

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Page 15: Dimensions, Jumpers And Connectors

Dimensions, Jumpers and Connectors Component Side Component Side Chapter 2 - Hardware

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Page 16 Solder Side Solder Side Chapter 2 - Hardware Information...

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Block Diagram Chapter 2 - Hardware Information...

Page 18: List Of Connectors

List of Connectors Please refer to the table below for all of the board's jumpers that you can configure for your application Label Function UIM Card Socket MiniCard Slot (Full-MiniCard) COM Port 2 COM Port 1 USB 2.0 Port 1 COM Port 4 (D-SUB 9) COM Port 3 (D-SUB 9) CN10...

Page 19: Uim Card Socket (Cn1)

2.3.1 UIM Card Socket (CN1) Pin Name Signal Type Signal level UIM_PWR UIM_RST UIM_CLK UIM_VPP UIM_DATA 2.3.2 MiniCard Slot (Full-MiniCard) (CN2) Pin Name Signal Type Signal level PCIE_WAKE# +3.3VSB +3.3V +1.5V +1.5V PCIE_CLK_REQ# UIM_PWR UIM_DATA PCIE_REF_CLK-DIFF UIM_CLK PCIE_REF_CLK+ DIFF UIM_RST Chapter 2 -...

Page 20 UIM_VPP W_DISABLE# +3.3V PCIE_RST# +3.3V PCIE_RX- DIFF +3.3VSB +3.3V PCIE_RX+ DIFF +1.5V +1.5V SMB_CLK +3.3V PCIE_TX- DIFF SMB_DATA +3.3V PCIE_TX+ DIFF USB_D- DIFF USB_D+ DIFF +3.3VSB +3.3V +3.3VSB +3.3V Chapter 2 - Hardware Information...

Page 21: Com Port 2 (Cn4)

+1.5V +1.5V +3.3VSB +3.3V 2.3.3 COM Port 2 (CN4) Pin Name Signal Type Signal level \pm 9V \pm 9V Chapter 2 – Hardware Information...

Page 22: Com Port 1 (Cn5)

 \pm 9V 2.3.4 COM Port 1 (CN5) Pin Name Signal Type Signal level \pm 9V \pm 9V \pm 9V \pm 9V 2.3.5 USB 2.0 Port 1 (CN6) 2 3 4 Chapter 2 – Hardware Information...

Page 23: Com Port 4 (D-Sub 9) (Cn7)

Pin Name Signal Type Signal level \pm 5VSB USB_D- DIFF USB_D \pm DIFF 2.3.6 COM Port 4 (D-SUB 9) (CN7) Pin Name Signal Type Signal level \pm 9V \pm 9V \pm 9V 2.3.7 COM Port 3 (D-SUB 9) (CN9) Chapter 2 – Hardware Information...

Page 24: Bio Connector (Cn10)

Pin Name Signal Type Signal level \pm 9V \pm 9V \pm 9V 2.3.8 BIO Connector (CN10) Pin Name Signal Type Signal level \pm 12V PCIE_TXN0 DIFF PCIE_RXN0 DIFF PCIE_TXP0 DIFF PCIE_RXP0 DIFF Chapter 2 - Hardware Information...

Page 25 PS_ON# +5VSB +5VSB +5VSB +5VSB PCIE_REF_CLK0 DIFF RESET# PCIE_REF_CLK0# DIFF Chapter 2 - Hardware Information...

Page 26 USB_D0- DIFF USB_D0+ DIFF USB_D1- DIFF USB_D1+ DIFF Chapter 2 - Hardware Information...

Page 27 SMB_CLK +3.3V SMB_DATA +3.3V WAKE# +3.3V USB_OC0# +3.3V USB_OC1# +3.3V LPC_AD0 +3.3V LPC_FRAME# +3.3V LPC_AD1 +3.3V SERIRQ +3.3V LPC_AD2 +3.3V LPC_DRQ +3.3V LPC_AD3 +3.3V GPIO0 +3.3V Chapter 2 - Hardware Information...

Page 28 AGND LPC_CLK +3.3V AUD_LINEOUT_L PME# AUD_LINEOUT_R Chapter 2 - Hardware Information...

Page 29: Chapter 3 - Bios And Drivers Installation

Chapter 3 Chapter 3 – BIOS and Drivers Installation...

Page 30: Bios Update

BIOS Update In order for the main board to recognize the BIO daughter board, you will have to

update its BIOS so that necessary system configurations can be performed. Please contact AAEON FAE for the BIOS update, or get more information about the update on http://www.aaeon.com Chapter 3 -...

Page 31: Drivers Installation

Drivers Installation Please follow the steps below to install the drivers for BIO-ST02-C4M1, which can be found in http://www.aaeon.com/tw/support/download.php Step 1 – Install Serial Port Drivers For Windows XP Open the patch.exe file in the folder Follow the instructions Drivers will be installed automatically For Windows 7 –...

<u>Page 32</u> Method 2 Change User Account Control settings to Never notify Reboot and log in as administrator Chapter 3 – BIOS and Driver Installation...

Page 33 Run patch.bat as administrator Chapter 3 – BIOS and Driver Installation...

Page 34 For Windows 8: Open the Apps Screen, right click on the Command Prompt tile and select Run as Administrator To install the driver (patch.bat), you will first have to locate the file in command prompt. To do that, first go to the directory which contains the file by entering <drive letter>: eg.

<u>Page 35</u> <folder> command again to access the subfolder (screenshot below is for reference only). Reboot after installation completes. To confirm the installation, go to Device Manager, expand the Ports (COM & LPT) tree and double click on any of the COM ports to open its properties.

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