# GOT3187WL-834

All-in-One 18.5" WXGA TFT Fanless Multi-Touch PANEL PC

**User's Manual** 

# USER'S MANUAL



www.axiomtek.com

### **Disclaimers**

This manual has been carefully checked and believed to contain accurate information. Axiomtek Co., Ltd. assumes no responsibility for any infringements of patents or any third party's rights, and any liability arising from such use.

Axiomtek does not warrant or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information in this document. Axiomtek does not make any commitment to update the information in this manual.

Axiomtek reserves the right to change or revise this document and/or product at any time without notice.

No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Axiomtek Co., Ltd.

# CAUTION

If you replace wrong batteries, it causes the danger of explosion. It is recommended by the manufacturer that you follow the manufacturer's instructions to only replace the same or equivalent type of battery and dispose of used ones.

©Copyright 2020 Axiomtek Co., Ltd. All Rights Reserved August 2020, Version A2 Printed in Taiwan

# **Safety Precautions**

Before getting started, read the following important cautions.

- 1. Be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and place all electronic components in any static-shielded devices. Most electronic components are sensitive to static electrical charge.
- Disconnect the power cords from the GOT3187WL-834 Series before making any installation. Be sure both the system and the external devices are turned OFF. Sudden surge of power could ruin sensitive components. Make sure the GOT3187WL-834 Series is properly grounded.
- 3. Do not open the system's rear cover. If opening the cover for maintenance is a must, only a trained technician is allowed to do so. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:
  - Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.
  - When handling boards and components, wear a wrist-grounding strap, available from most electronic component stores.

# **Trademarks Acknowledgments**

Axiomtek is a trademark of Axiomtek Co., Ltd.

 $\mathsf{Windows}^{^{(\!\!\!\!R)}}$  is a trademark of Microsoft Corporation.

IBM, PC/AT, PS/2, VGA are trademarks of International Business Machines Corporation.

Intel<sup>®</sup> and Pentium<sup>®</sup> are trademarks of Intel Corporation.

AMI is trademark of American Megatrend Inc.

Other brand names and trademarks are the properties and registered brands of their respective owners.

# **Table of Contents**

Disc	laimers		ii
Safe	ety Precau	utions	iii
Cha	apter 1	Introduction	1
1.1	Genera	al Description	1
1.2	Specifi	ications	2
1.3	Dimens	4	
1.4	I/O Out	tlets	6
1.5	Packin	g List	7
Cha	apter 2	Hardware and Installation	9
2.1	Open b	back cover	10
2.2	Jumpe	r and Switch Setting	11
	2.2.1	PCIe / mSATA setting (JP6)	
	2.2.2	Auto Power On (JP7)	
	2.2.3 2.2.4	Restore BIOS Optimal Defaults (JP8) COM port Connector	
2.3		et	
2.4		ings: VESA	
2.5		ss LAN Card Installation	
2.6		Input	
Cha	apter 3	AMI BIOS Setup Utility	19
3.1	Naviga	tion Keys	19
3.2	Main M	lenu	20
3.3	Advand	ced Menu	21
3.4	Chipse	et Menu	32
3.5	Securit	ty	
3.6	Boot M	lenu	
3.7	Save&I	Exit	40
Cha	apter 4	Drivers Installation	43
4.1	System	n	43
	4.1.1	Driver Content	
	4.1.2	WIN 10 IoT	43

# Section 1 Introduction

This chapter contains general information and detailed specifications of the GOT3187WL-834. Chapter 1 include the following sections:



- General Description
- Specifications
- Dimensions and outlines
- I/O Outlets
- Package List

# 1.1 General Description

The GOT3187WL-834 adopts an 18.5-inch WXGA/FHD LCD and supports Intel® Bay Trail-D processor. The Lite rugged industrial panel PC supports low power Intel® Celeron® processor J1900. It also provides two PCI Express Mini card slots for 3G, wireless network connectivity. This 18.5" multi-touch panel computer is suitable for transportation, heavy-duty industry, smart factory automation, and oil pipe monitoring systems.

#### Extended Operating Temperature Range with Fanless & IP65 front design

GOT3187WL-834 features a technology of extended operating temperature range which allows it to work between -10°C to +50°C. It incorporates compact ID and fanless cooling system with a low power Intel® Celeron® Processor J1900 (2M Cache, up to 2.42 GHz), IP65 front bezel to prevent from liquid or dust, making the platform a power-efficient solution.

#### Reliable and Stable Design

The GOT3187WL-834 adopts a fan-less cooling system, which makes it especially suitable for vibration-heavy environments, best for the transportation, ship, and industrial machinery markets. For high capacity storage requirement, GOT3187WL-834 can work under 1.0G (10 ~ 500Hz) in operation mode with a patent of anti-vibration design. The patent improves the system reliability and sustainability. (Note: Sometimes heavy-vibration may cause the LCD screen flash with white color. It won't affect product function.)

#### WLAN Antenna Supported (optional)

GOT3187WL-834 has 2 PCI Express Mini Card slots for optional add-on such as wireless LAN card for 802.11 a/b/g/n connections, 3G/GPRS application, and more. These slots also provide 3 optional fixed rotational WLAN/3G antennas for wireless network connection.

#### More Features

GOT3187WL-834 utilizes one 204-pin DDR3L SODIMM system memory max. up to 8GB, one SATA HDD and one mSATA. It provides over-current protection-fuse and a full set of I/O including RS-232/422/485, USB 2.0, USB 3.0, audio (line-out), and Gigabit Ethernet. Additionally, this slim unit supports VESA mount, wall mount (optional) and desktop stand (optional).

# 1.2 Specifications

#### Main CPU Board

- CPU
  - Intel® Celeron® Processor J1900 (2M Cache, up to 2.42 GHz) onboard
- System Memory
  - 1 x 204-pin DDR3L SO-DIMM socket
  - Maximum memory up to 8GB
- BIOS
  - American Megatrends, Inc. (AMI) BIOS

#### I/O System

- Standard I/O
  - 2 x RS-232/422/485
  - 2 x USB 2.0
  - 2 x USB 3.0
- Ethernet
  - 2 x RJ45 for Giga Ethernet (Intel i210IT)
- Audio
  - 1x Line-out
- Expansion
  - 1 x Mini-card slot (w/SIM slot)
  - 1 x Mini-card slot (supports mSATA, optional)
- Storage
  - 1 x 2.5" SATA
  - 1 x mSATA
- Power connector
  - Screw power connector (AC Version)
  - Phoenix power connector (DC Version)

#### System Specification

- 18.5" WXGA (1366x768) LCD with LED backlight
- Resistive touch panel
- Fanless Heat Dispensing Design
- IP65 front bezel
- Disk drive housing:
  - One 2.5" SATA drive
- Net Weight
  - 5.8 Kgs
- Dimension (Main Body Size)
  - 460.8x 58.5x 285 mm
- Operation Temperature
  - -10°C to 50°C
- Relative Humidity
  - 20% to 90% @ 40°C, Non-Condensing
- System Power input
  - DC Version: 9 to 36VDC or 12 to 36VDC (FHD Version) with phoenix power connector
  - AC Version: 12VDC, 60W power adapter



If the operation temperature is higher than 40  ${\rm C},$  the wide temperature HDD is recommended to be used on the device.

# 1.3 Dimensions and Outlines

The following diagrams show the dimensions and outlines of GOT3187WL-834

#### Outline dimension: 460.8x 58.5x 285 mm



Cut Out dimensions: 448.74 x 273.74 mm



# 1.4 I/O Outlets

Please refer to the following illustration for I/O locations of the GOT3187WL-834.





No	Function
1	1 x Power Switch
2	1 x Screw conn. w/AC power adapter
3	2 x USB 2.0
4	2 x COM (RS-232/422/485)
5	2 x Ethernet
6	2 x USB 3.0
7	1 x Audio (Line-out)
8	2 x Speaker
9	1 x Backlight switch
10	2 x Brightness adjust ( +/- )

# 1.5 Packing List

When you receive the GOT3187WL-834, the bundled package should contain the following items:

- 1 x GOT3187WL-834
- 1 x AC adapter x 1 (AC Version)
- 1 x Power cord x1 (AC Version)
- 1 x Phoenix connector (DC Version)
- 1 x Panel mount kit

If you can not find the package or any items are missing, please contact Axiomtek distributors immediately.

This page is intentionally left blank.

# Section 2 Hardware and Installation

The GOT3187WL-834 provides rich I/O ports and flexible expansions for you to meet different demand. The chapter will show you how to install the hardware. It includes:

- Open Back Cover
- Jumper and Switch Setting
- Ethernet
- VESA Mount
- Wireless LAN Card
- Power Input

# 2.1 Open back cover

This section tells users how to open back cover. Please follow the steps below.

Step 1 Unscrew 8 screws on the back cover. Please refer the photo below.



Step 2 Remove the back cover.



# 2.2 Jumper and Switch Setting

Jumper is a small component consisting of jumper clip and jumper pins. Install jumper clip on 2 jumper pins to close. And remove jumper clip from 2 jumper pins to open. The following illustration shows how to set up jumper.



Before applying power to GOT3187WL-834, please make sure all of the jumpers and switch are in factory default position. Below you can find a summary table and onboard default settings.

Jumper	Description	Setting		
JP6	PCIe / mSATA setting Default: PCIe	1-2 close		
JP7	Auto Power On Default: Disable	2-3 close		
JP8	Restore BIOS Optimal Defaults (Clear CMOS) Default: Normal Operation	1-2 close		

### 2.2.1 PCIe / mSATA setting (JP6)

For CN8, switches mSATA or PCIe setting.

Function	Setting	
PCIe (Default)	1-2 close	
mSATA	2-3 close	123

# 2.2.2 Auto Power On (JP7)

If JP7 is enabled for power input, the system will be automatically power on without pressing soft power button. If JP7 is disabled for power input, it is necessary to manually press soft power button to power on the system.

Function	Setting
Enable auto power on (Default)	1-2 close
Disable auto power on	2-3 close

1	2	3

# 2.2.3 Restore BIOS Optimal Defaults (JP8)

Put jumper clip to pin 2-3 for a few seconds then move it back to pin 1-2. Doing this procedure can restore BIOS optimal defaults.

Function	Setting	
Normal operation (Default)	1-2 close	
Restore BIOS optimal defaults	2-3 close	123

# 2.2.4 COM port Connector

The pin assignment of RS-232/RS-422/RS-485 is listed on the following table.

Pin	RS-232	RS-422	RS-485	
1	DCD	TX-	Data-	
2	RXD	TX+	Data+	
3	TXD	RX+	No use	
4	DTR	RX-	No use	0
5	GND	GND	GND	
6	DSR	No use	No use	
7	RTS	No use	No use	
8	CTS	No use	No use	
9	RI	No use	No use	

# 2.3 Ethernet

The GOT3187WL-834 has two RJ-45 connectors: LAN1 and LAN2. Ethernet connection can be established by plugging one end of the Ethernet cable into this RJ-45 connector and the other end (phone jack) to a 1000/100/10-Base-T hub.

Pin	Signal	Pin	Signal		
L1	MDI0+	L5	MDI2+		
L2	MDI0-	L6	MDI2-		
L3	MDI1+	L7	MDI3+		
L4	MDI1-	L8	MDI3-		
A	Active LED (Yellow)				
В	100 LAN LED (Green) / 1000 LAN LED (Orange)				

Please refer to detailed pin assignment list below:





# 2.4 Mountings: VESA

The GOT3187WL-834 provides VESA mount: 100x100 mm. Screw four screws to fix the kit in the back chassis.

#### VESA mount:



# 2.5 Wireless LAN Card Installation

The GOT3187WL-834 provides one Mini card slot for user to install one wireless LAN card. When installing the wireless LAN card, refer to the following instructions and illustration:



Step 1 Refer to section 2.2 to open the back cover and find out mini-card slot on mainboard.

Step 2 Insert the wireless LAN card to the slot. Push it down firmly until it is fixing with screw by the slot.





#### Step 3 Find the Antenna cable and connect it on wireless LAN card



Step 4 Remove the antenna plug from the top of back cover, and then install the antenna on the antenna connector

NOTE: Please have the extended bracket when using half-size mini card.

# 2.6 Power Input

GOT3187WL-834 equips with a screw type power connector. It adopts AC to DC power adapter 12V/5A. Please follow the signs on power connector to connect power source.



GOT3187WL-834 equips with a phoenix type power connector. It adopts 9VDC to 36VDC or 12VDC to 36VDC(FHD Version). Please follow the signs on power connector to connect DC power source

+: Power p	ositive	G: S	afety grou	nd –	:Power ne	egative	
	0+ -0 ,111,	© <b>]]</b> o	· · · ·				
				×.			

NOTE: The safety ground must be connected to ensure the unit working appropriately.

This page is intentionally left blank.

# Section 3 AMI BIOS Setup Utility

This chapter provides users with detailed description how to set up basic system configuration through the AMIBIOS8 BIOS setup utility.

# 3.1 Navigation Keys

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process. These keys include <F1>, <F2>, <F3>, <F4>, <Enter>, <ESC>, <Arrow> keys, and so on.

# NOTE: Some of navigation keys differ from one screen to another.

← Left/Right	The Left and Right < Arrow> keys allow you to select a setup screen.			
<b>↑</b> ↓ Up/Down	The Up and Down <arrow> keys allow you to select a setup screen or sub-screen.</arrow>			
+- Plus/Minus The Plus and Minus <arrow> keys allow you to change the field value of a pasterior setup item.</arrow>				
Tab	The <tab> key allows you to select setup fields.</tab>			
F1	The <f1> key allows you to display the General Help screen.</f1>			
F2 The <f2> key allows you to load previous value</f2>				
F3 The <f3> key allows you to Load Optimized Defaults.</f3>				
F4 The <f4> key allows you to save any changes you have made and exit Setup Press the <f4> key to save your changes.</f4></f4>				
Esc The <esc> key allows you to discard any changes you have made and ex Setup. Press the <esc> key to exit the setup without saving your changes.</esc></esc>				
Enter The <enter> key allows you to display or change the setup option listed fo particular setup item. The <enter> key can also allow you to display the setup screens.</enter></enter>				

# 3.2 Main Menu



#### System Date / Time

Use this option to change the system time and date. Highlight *System Time* or *System Date* using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time is entered in HH:MM:SS format.

# 3.3 Advanced Menu

Aptio Setup Utility – Copyright (C) 2013 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
	System ACPI Parameters. ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.16.1242. Copyright (C) 2013 American Me	egatrends, Inc.

The Advanced menu allows users to set configuration of the CPU and other system devices. You can select any of the items in the left frame of the screen to go to the sub menus:

- ACPI Settings
- NCT6106D Super IO Configuration
- NCT6106D H/W Monitor
- CPU Configuration
- IDE Configuration
- LPSS & SCC Configuration
- USB Configuration
- Security Configuration

For items marked with "▶", please press <Enter> for more options.'

#### **ACPI Settings**

You can use this screen to select options for the ACPI Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.

#### **ACPI Sleep State**

Allow you to select the Advanced Configuration and Power Interface (ACPI) state to be used for system suspend. Here are the options for your selection, Suspend disable and S3 (Suspend to RAM).



#### **NCT6106D Super IO Configuration**

Use this screen to select options for the Super IO Configuration, and change the value of the selected option



#### Serial Port 1-2 configuration

#### Serial port:

This option used to enable or disable the serial port.

#### **Device Setting:**

This item specifies the base I/O port address and Interrupt Request address of serial port. The port 0 Optimal setting is *3F8/IRQ4*. The port 1 Optimal setting is *2F8/IRQ3*.

Aptio Setup Utility -	Copyright (C) 2013 American	Megatrends, Inc.
Serial Port 1 (COM1)		Enable or Disable Serial Port (COM)
Serial Port Device Settings	[Enabled] IO=3F8h; IRQ=4;	(601)
COM Port Type	[RS232]	
	Serial Port ———— Disabled	
	Enabled	<pre>++: Select Screen f↓: Select Item</pre>
		Enter: Select +/-: Change Opt.
		F1: General Help F2: Previous Values F3: Optimized Defaults
		F4: Save & Exit ESC: Exit
Vancion 2 16 1919 - 0	opyright (C) 2013 American M	ogatoondo The

Serial type: This option used to select RS232/422/485 function.

Aptio Setup Utility - Advanced	- Copyright (C) 2013 Americar	) Megatrends, Inc.
Serial Port 1 (COM1)		COM Port Type: RS232, RS422,
Serial Port Device Settings	[Enabled] IO=3F8h; IRQ=4;	R\$485
COM Port Type	[RS232]	
	COM Port Type	
	RS422 RS485	++: Select Screen ↑↓: Select Item
		Enter: Select +/−: Change Opt.
		F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit
		ESC: Exit
Version 2.16.1242. (	Copyright (C) 2013American ⊧	legatrends, Inc.

#### NCT6106D H/W Monitor

This screen shows the Hardware Health Configuration.

Aptio Advanced	Setup Utility – Copyright (C)	2013 American	Megatrends, Inc.
Pc Health Status			
System temperature CPU temperature Fan2 Speed Fan1 Speed VCORE Memory +12V +5V +3.3V	: +37.0 C : +55.0 C : N/A : N/A : +0.840 V : +1.332 V : +12.096 V : +5.165 V : +3.312 V		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Versi	on 2.16.1242. Copyright (C) 2	013 American Me	egatrends, Inc.

#### **CPU Configuration**

These screens show the CPU Configuration, CPU information and Intel virtualization technology enable/disable selected



AMI BIOS Setup Utility

#### GOT3187WL-834 User's Manual

Socket 0 CPU Information          CPU Speed       2001 MHz         64-bit       Supported         Intel Virtualization Technology       [Enabled]         Intel Virtualization Technology       Disabled         Enabled       Enabled	
<ul> <li>Socket 0 CPU Information</li> <li>CPU Speed</li> <li>CPU Speed</li> <li>Supported</li> <li>Intel Virtualization Technology</li> <li>Intel Virtualization Technology</li> <li>Disabled</li> <li>Enabled</li> </ul>	en enabled, a VMM can
CPU Speed 2001 MHz 64-bit Supported Intel Virtualization Technology [Enabled] Intel Virtualization Technology Disabled Enabled Enabled	ilize the additional rdware capabilities provided Vanderpool Technology
Intel Virtualization Technology Disabled Enabled Enabled	Valuer poor reenhorogy
Disabled Enabled Ent	
F1: F2: F3: F4:	lect Screen lect Item ter: Select -: Change Opt. : General Help : Previous Values : Optimized Defaults : Save & Exit C: Exit

#### IDE Configuration

You can use this screen to select options for the SATA Configuration, and change the value of the selected option.

#### SATA Mode

Use this item to choose the SATA operation mode. Here are the options for your selection, IDE Mode, AHCI Mode.

Aptio Setup Utility – Advanced	Copyright (C) 2013 American	Megatrends, Inc.
IDE Configuration SATA Mode SATA PortO Not Present	[AHCI Mode]	Select IDE / AHCI
SATA Port1 Not Present		
	SATA Mode IDE Mode AHCI Mode	<pre> ++: Select Screen  1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version 2.16.1242. Co	ppyright (C) 2013 American M	egatrends, Inc.

### Intel TXE Configuration

The Advanced menu allows users to update the TXE firmware.

Aptio Setup Utility - Advanced	Copyright (C) 2013 American	Megatrends, Inc.
Intel(R) TXE Configuration TXE HMRFPO	[Disabled]	
	TXE HMRFP0 Enabled Disabled	++: Select Screen tJ: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.16.1242. Cc	pyright (C) 2013 American M	egatrends, Inc.

#### LPSS & SCC Configuration

You can select any of the items in the frame of the screen to change the OS, the default setting is Windows 7.

Aptio Se Advanced	etup Utility – Copyright (C) 2013 Americ	an Megatrends, Inc.
OS Selection	[Windows 7]	OS Selection
	OS Selection Windows 8.X Windows 7	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version	n 2.16.1242. Copyright (C) 2013 American	Megatrends, Inc.

Please be informed to select the Windows 8.x when installing Win 8 or Win 8.1.

If using the Android OS, please refer to <u>https://01.org/android-ia</u>.

# 3.4 Chipset Menu

The Chipset menu allows users to change the advanced chipset settings.



### • North Bridge

This screen shows the North Bridge memory information.

Aptio Setup Util Chipset	lity − Copyright (C) 2013 Americ	an Megatrends, Inc.
LVDS Panel Type Memory Information	[1366x768 24Bit]	
Total Memory Memory SlotO	2048 MB (LPDDR3) 2048 MB (LPDDR3)	
		<pre>→+: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Varaian 9.46.45	242. Conuright (C) 2013 American	Nogathanda Tha

#### • South Bridge

Aptio Setup Utility Advanced	– Copyright (C) 2013 American	Megatrends, Inc.
USB Configuration		Enables Legacy USB support. AUTO option disables legacy
USB Module Version	8.11.02	support if no USB devices are connected. DISABLE option will
USB Devices: 1 Keyboard, 1 Mouse, 2 Hubs		keep USB devices available only for EFI applications.
Legacy USB Support XHCI Hand-off EHCI Hand-off USB Mass Storage Driver Support	[Enabled] [Enabled] [Disabled] —— Legacy USB Support ————————————————————————————————————	
USB hardware delays and time-out	Enabled Disabled	
USB transfer time-out Device reset time-out	Auto	↔: Select Screen ↑↓: Select Item
Device power-up delay		Enter: Select +/-: Change Opt.
		F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit
		ESC: Exit
Version 2.16.1242.	Copyright (C) 2013 American M	egatrends, Inc.

AMI BIOS Setup Utility

#### • USB Configuration

You can use this screen to select options for the USB Configuration, If USB3.0 function used, XHCI Mode must enable and EHCI must disable. \*\*XHCI default is Auto.

Aptio Setup Utility - Chipset	· Copyright (C) 2013 American	Megatrends, Inc.
USB Configuration XHCI Mode USB 2.0(EHCI) Support	[Auto] [Disabled]	Mode of operation of xHCI controller
	XHCI Mode Enabled Disabled Auto	<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version 2.16.1242. C	Copyright (C) 2013 American M	egatrends, Inc.
Aptio Setup Utility - Advanced	· Copyright (C) 2013 American	Megatrends, Inc.
	Copyright (C) 2013 American	Megatrends, Inc. This is a workaround for OSes without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.
Advanced USB Configuration USB Module Version USB Devices:		This is a workaround for OSes without XHCI hand–off support. The XHCI ownership change should be claimed by XHCI

AMI BIOS Setup Utility

Aptio Setup Utility - Advanced	- Copyright (C) 2013 Americar	Megatrends, Inc.
USB Configuration		This is a workaround for OSes without EHCI hand-off support.
USB Module Version	8.11.02	The EHCI ownership change should be claimed by EHCI
USB Devices: 1 Keyboard, 1 Mouse, 2 Hubs		driver.
Legacy USB Support XHCI Hand-off	[Enabled] [Enabled]	
EHCI Hand-off USB Mass Storage Driver Support	[Disabled] EHCI Hand-off Disabled	
USB hardware delays and time-outs: USB transfer time-out	Enabled	++: Select Screen
Device reset time-out Device power-up delay	[Auto]	↑↓: Select Item Enter: Select +/-: Change Opt.
		F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit ESC: Exit
		ESU, EAIC
Version 2.16.1242. (	Copyright (C) 2013American ⊧	legatrends, Inc.

To "Enabled" or "Disabled" USB Mass Storage Driver Support

Aptio Setup Ut Advanced	ility – Copyright (C) 2013 Am	merican Megatrends, Inc.
USB Configuration		Enable/Disable USB Mass Storage Driver Support.
USB Module Version	8.11.02	Storage priver support.
USB Devices: 1 Keyboard, 1 Mouse, 2	? Hubs	
Legacy USB Support	[Enabled]	
XHCI Hand-off	[Enabled]	
EHCI Hand-off	[Disabled]	
USB Mass Storage Driver Su USB hardware delays and ti USB transfer time-out Device reset time-out Device power-up delay	— USB Mass Storage Driver Su Disabled Enabled [Auto]	lect Screen lect Item Enter: Select
		+/-: Change Opt.
		F1: General Help F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
Version 2.16.	1242. Copyright (C) 2013 Amer	rican Megatrends, Inc.

USB hardware delays and time-outs:

Aptio Setup Utili Advanced	ty – Copyright (C) 2013 Americar	n Megatrends, Inc.
USB Configuration USB Module Version USB Devices:	8.11.02	The time-out value for Control, Bulk, and Interrupt transfers.
1 Keyboard, 1 Mouse, 2 Hu Legacy USB Support XHCI Hand-off EHCI Hand-off USB Mass Storage Driver Support USB hardware delays and time-ou USB transfer time-out Device reset time-out Device power-up delay	[Enabled] [Enabled] USB transfer time-out ——— 1 sec 5 sec	<ul> <li>*: Select Screen</li> <li>4: Select Item nter: Select</li> <li>+/-: Change Opt.</li> <li>F1: General Help</li> <li>F2: Previous Values</li> <li>F3: Optimized Defaults</li> <li>F4: Save &amp; Exit</li> <li>ESC: Exit</li> </ul>
Version 2.16.124	2. Copyright (C) 2013American №	legatrends, Inc.

Aptio Setup Utili Advanced	ty – Copyright (C) 2013 American	n Megatrends, Inc.
USB Configuration		USB mass storage device Start Unit command time-out.
USB Module Version	8.11.02	onit command time-out.
USB Devices: 1 Keyboard, 1 Mouse, 2 Hu	bs	
Legacy USB Support	[Enabled]	
XHCI Hand-off	[Enabled]	
EHCI Hand-off	Device reset time-out	
USB Mass Storage Driver Support	10 sec 20 sec	
USB hardware delays and time–ou		
USB transfer time-out	40 sec	+: Select Screen
Device reset time–out		↓: Select Item
Device power-up delay		nter: Select +/-: Change Opt.
		F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
Version 2.16.124	2. Copyright (C) 2013 American M	Megatrends, Inc.

Aptio Setup Utility Advanced	– Copyright (C) 2013 American	) Megatrends, Inc.
USB Configuration		Maximum time the device will take before it properly
USB Module Version	8.11.02	reports itself to the Host Controller. 'Auto' uses
USB Devices: 1 Keyboard, 1 Mouse, 2 Hubs		default value: for a Root port it is 100 ms, for a Hub port the delay is taken from Hub
Legacy USB Support XHCI Hand-off	[Enabled] [Enabled]	descriptor.
EHCI Hand-off	[Disabled] — Device power-up delay ————————————————————————————————————	
A	uto anual	
USB transfer time-out Device reset time-out		←: Select Screen ↓: Select Item
Device power–up delay	[Auto]	Enter: Select +∕–: Change Opt.
		F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit ESC: Exit
		E50. EXIL
Version 2.16.1242.	Copyright (C) 2013 American M	legatrends. Inc.

Aptio Setup Utility - Advanced	Copyright (C) 2013 American	Megatrends, Inc.
USB Configuration		Delay range is 140 seconds, in one second increments
USB Module Version	8.11.02	The second therements
USB Devices: 1 Keyboard, 1 Mouse, 2 Hubs		
Legacy USB Support XHCI Hand-off	[Enabled] [Enabled]	
EHCI Hand-off	[Disabled]	
USB Mass Storage Driver Support	[Enabled]	
USB hardware delays and time-outs: USB transfer time-out	[20 sec]	↔: Select Screen
Device reset time-out	[20 sec]	↑↓: Select Item
Device power-up delay	[Manual]	Enter: Select
Device power–up delay in seconds	5	+/−: Change Opt. F1: General Help
		F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit
		ESC: Exit
Version 2.16.1242. Co	pyright (C) 2013 American M	egatrends, Inc.

AMI BIOS Setup Utility

# 3.5 Security

The Security menu allows users to change the security settings for the system.

Aptio Setup U Main Advanced Chipset S	tility – Copyright (C) 2013 America ecurity Boot Save & Exit	n Megatrends, Inc.
Password Description		Set Administrator Password
If ONLY the Administrator's then this only limits acces only asked for when enterin If ONLY the User's password is a power on password and boot or enter Setup. In Set have Administrator rights. The password length must be in the following range: Minimum length	s to Setup and is g Setup. is set, then this must be entered to up the User will 3	
Maximum length Administrator Password User Password	20	<pre>++: Select Screen f4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version 2.16	.1242. Copyright (C) 2013 American	Megatrends, Inc.

# 3.6 Boot Menu

The Boot menu allows users to change boot options of the system. You can select any of the items in the left frame of the screen to go to the sub menus:

	Utility – Copyright (C) 2013 Americar Security <mark>Boot</mark> Save & Exit	n Megatrends, Inc.
Boot Configuration Setup Prompt Timeout	1	Sets the system boot order
Quiet Boot Legacy Pxe Oprom	[Disabled] [Disabled]	
Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3	[UEFI: Built-in EFI] [Disabled] [Disabled]	
Hard Drive BBS Priorities		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.4	6.1242. Copyright (C) 2013 American ⊧	legateerds. The

#### **Setup Prompt Timeout**

Set the Timeout for wait press key to enter Setup Menu.

#### **Quiet Boot**

Use this item to enable or disable the Quite Boot state. The default setting is disable.

#### Legacy Pxe OPROM

Use this item to enable or disable the Preboot Execution Environment. The default setting is disable.

#### **Boot Option Priorities**

Specifies the overall boot order from the available devices.

### 3.7 Save&Exit

Aptio Setup Utility – Copyright (C) 2013 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset	Exit system setup after saving the changes.
Save Options Save Changes Discard Changes	
Restore Defaults Save as User Defaults Restore User Defaults	
	<pre>++: Select Screen  14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version 2.16.1242. Copyright (C) 2013 American Me	gatrends, Inc.

#### Save Changes and Exit

When you have completed the system configuration changes, select this option to leave Setup and reboot the computer so the new system configuration parameters can take effect. Select Save Changes and Exit from the Exit menu and press <Enter>. Select Ok to save changes and exit.

#### **Discard Changes and Exit**

Select this option to quit Setup without making any permanent changes to the system configuration. Select Discard Changes and Exit from the Exit menu and press <Enter>. Select Ok to discard changes and exit.

#### Save Changes and Reset

When you have completed the system configuration changes, select this option to leave Setup and reboot the computer so the new system configuration parameters can take effect. Select Save Changes and Reset from the Save & Exit menu and press <Enter>. Select Yes to save changes and reset.

#### **Discard Changes and Reset**

Select this option to quit Setup without making any permanent changes to the system configuration and reboot the computer. Select Discard Changes and Reset from the Save & Exit menu and press <Enter>. Select Yes to discard changes and reset.

#### Save Changes

When you have completed the system configuration changes, select this option to save changes. Select Save Changes from the Save & Exit menu and press <Enter>. Select yes to save changes.

#### **Discard Changes**

Select this option to quit Setup without making any permanent changes to the system configuration. Select Discard Changes from the Save & Exit menu and press <Enter>. Select Yes to discard changes.

#### **Restore Defaults**

It automatically sets all Setup options to a complete set of default settings when you select this option. Select Restore Defaults from the Save & Exit menu and press <Enter>.

#### Save as User Defaults

Select this option to save system configuration changes done so far as User Defaults. Select Save as User Defaults from the Save & Exit menu and press <Enter>.

#### Restore User Defaults

It automatically sets all Setup options to a complete set of User Defaults when you select this option. Select Restore User Defaults from the Save & Exit menu and press <Enter>.

#### Boot Override

Select a drive to immediately boot that device regardless of the current boot order.

This page is intentionally left blank.

# **Section 4 Drivers Installation**

#### 4.1 System

The GOT3187WL-834 is compatible with operating systems Windows 10 IoT Enterprise. To facilitate the installation of system drivers, please carefully read the instructions in this Section before any of such installation.

# 4.1.1 Driver Content

Please download the following GOT3187WL-834 driver from Axiomtek official website

http://www.axiomtek.com.tw/Default.aspx?MenuId=Products&FunctionId=Down **loadSearch** 





NOTE: When Windows 10 IoT return to default setting, it may have to reinstall these system drivers.

NOTE: Touch scream driver (by model)

- a. The projected capacitive multi-touch, Windows default setting is already enabled, don't need to installation the driver.
- b. The resistive touch needs to installation the driver, please download from Axiomtek official website

# 4.1.2 WIN 10 IoT

Here are supported onboard devices:

- Onboard Multi I/O
- SATA HDD
- USB
- LCD display
- 10/100/1000 base-T Ethernet
- **mSATA**
- **Onboard Audio**