BIOS User Manual

For the : WL/AL/EL Series

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The default BIOS (Basic Input/Output System) is already properly configured and optimized, there is normally no need to run this utility.

■ 1.1.1 When to Use BIOS Setup ?

You may need to run the BIOS Setup when:

- An error message appears on the screen during the system booting up and is requested to run SETUP.
- You want to change the default settings for customized features.
- You want to reload the default BIOS settings.

CAUTION! We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.

■ 1.1.2 How to run BIOS Setup ?

To run the BIOS Setup Utility, turn on the Box-PC and press the [Del] or [F2] key during the POST procedure.

If the message disappears before you respond and you still wish to enter Setup, either restart the system by turning it OFF and ON, or simultaneously pressing [Ctrl]+[Alt]+[Del] keys to restart.

The setup function only can be invoked by pressing [Del] or [F2] key during POST that provide an approach to change some setting and configuration the user prefer, and the changed values will save in the NVRAM and will take effect after the system rebooted.

Press [F7] key for Boot Menu.

- When OS support is Windows 11 :
- 1. Click the "Start menu" and select "Settings".
- 2. Select "Windows Update" and Click "Advanced options".
- 3. Click "Recovery".
- 4. Under "Advanced startup", click "Restart now". The system will restart and show the Windows 11 boot menu.
- 5. Select "Troubleshoot".
- 6. Choose "Advanced options".
- 7. Select "UEFI Firmware Settings".
- 8. Click "Restart" to restart the system and enter UEFI (BIOS).
- When OS support is Windows 10 :
- 1. Click the "Start **#** menu" and select "Settings".
- 2. Select "Update and Security".
- 3. Click "Recovery".
- 4. Under "Advanced startup", click "Restart now". The system will restart and show the Windows 10 boot menu.
- 5. Select "Troubleshoot".
- 6. Choose "Advanced options".
- 7. Select "UEFI Firmware Settings".
- 8. Click "Restart" to restart the system and enter UEFI (BIOS).

■ 2.2 BIOS Setup Menu (WL series only)

Main Menu

Aptio Setup – Ame Main Advanced Security Boot Exi	erican Megatrends International, LLC.
BIOS Version	B1.0.03 ×64
EC Version	
Build Date and Time	0.20.07
BIOS FW GUID	DE0CAB05-41E9-5682-B82B-CA16D7EB4C4F
Manufacturer Name	Standard
Product Name	WL Series
Serial Number	To be filled by O.E.M.
UUID Number	03000200-0400-0500-0006-000700080009
SKU Number	To be filled by O.E.M.
Family	To be filled by O.E.M.
Baseboard Product	WL Series
Enclosure Type	Desktop
Ethernet MAC Address	80EE73F03444
Processor Information	
Processor Type	Intel(R) Core(TM) i3–8145UE CPU @ 2.20GHz
Processor Speed	2400 MHz
Memory Information	
Total Memory	4096 MB (DDR4)
Memory Frequency	2400 MHz
PCH Information	
Intel VT-d	Supported(Enabled)
ME FW Version	12.0.64.1551
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· System Time/System Date

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.

> Advanced Menu

Aptio Setup – American Megatrends International, LLC. Main <mark>Advanced</mark> Security Boot Exit		
Advanced Setting Wake on LAN PowerOn by RTC Alarm Restore On AC Power Loss	[Disabled] [Disabled] [Power off]	Enable/Disable integrated LAN to wake the system.
Internal Connect Port Controlled SATA1 M.2 SATA M.2 PCIe	[Enabled] [Enabled] [Enabled]	
Internal Mass Storage Devices SATA1 M.2 SATA M.2 PCIe SID Configuration	Empty Empty KINGSTON RBUSNS8154P3128GJ (1	++: Select Screen †↓: Select Item Enter: Select +/-: Change Opt.
External Display support ▶ Trusted Computing	[VGA / DVI / DP]	F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
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• Wake on LAN

Enable/Disable integrated LAN to wake the system.

• PowerOn by RTC Alarm

Enable/Disable system wake on Alarm event. When enable, System will wake on the hr:mm:sec specified

Restore On AC Power Loss

Specify what state to go to when power is re-applied after a power failure (G3 state).

· SATA1/M.2 SATA/M.2 PCIE

Enable/Disable Connect port.

· SIO Configuration

Set SIO configuration.

· External Display support

Select Type for External Display board.

Trusted Computing

Trusted Computing (TPM) setting

Security Menu

Main Advanced Security Boot	– American Megatrends Internatio Exit	Mai, LLC.
Security Setting		Enables password entry on boot, setup
Access Level	Administrator	page, or both.
Administrator Password User Password Password Login Control	NOT INSTALLED NOT INSTALLED [Both]	
Change Administrator Password Change User Password		
Secure Boot	[Disabled]	
HDD Security Configuration: TS128GMTE652T–I		<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

Password Login Control : [Setup / Boot / Both]

It's the timing for password prompt. If the user choose the setup , the system only ask the password when user get into the setup. If the user choose the boot, the system only ask the password when boot.

Change Administrator Password

It's the option for administrator password.

· Change User Password

It's the option for user password.

· Secure Boot

Enable / Disable the Secure Boot Support.

Secure Boot Mode

Set the Secure Boot Mode status.

Boot Menu

Aptio Setup – Ame Main Advanced Security Boot Exit	rican Megatrends International, LL	C.
Boot Configuration LAN Remote Boot Bootup NumLock State Quiet Boot Fast Boot Boot Mode Select	[Enabled] [On] [Enabled] [Disabled] [UEFI]	Enable ∕ Disable the LAN Remote Boot option
FIXED BOOT ORDER Priorities Boot Option #1 Boot Option #2 Boot Option #3 Boot Option #4 Boot Option #5 • UEFI USB Key Drive BBS Priorities • UEFI Hard Disk Drive BBS Priorities • UEFI Network Drive BBS Priorities	<pre>[USB Key:UEFI: JetFlashTran] [Hard Disk:Windows Boot Man] [Network:UEFI: PXE IPv4 Int] [USB Hard Disk] [USB CD/DVD]</pre>	<pre>++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

· LAN Remote Boot

Enable/Disable UEFI network stack.

• Bootup NumLock state

Select the keyboard NumLock state.

• Quiet Boot

Enables/disables Quiet Boot option.

· Fast Boot

Enables/disables Fast Boot option.

· Boot mode select

The default setting is UEFI because secure boot enable.

➤ Exit Menu

Aptio Setup Utility — Copyright (C) 2015 American Megatren Main Advanced Security Boot <mark>Exit</mark>	ds, Inc.
Save and Exit Option	Reset the system after saving the
Save Changes and Reset	changes.
Discard Changes and Exit	
Restore Defaults	
	++: Select Screen
	↑↓: Select Item Enter: Select +/-: Change Opt.
	F1: General Help F2: Previous Values
	F3: Optimized Defaults F4: Save & Exit
	ESC: Exit
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■ 2.3 BIOS Setup Menu (EL/AL series only)

Main Menu

Aptio Setup – A Main Advanced Security Boot E:	American Megatrends International, LLC. xit
BIOS Version	B1.0.03 x64
EC Version	0.20.07 06/01/2020 18:42:40
Build Date and Time	06/01/2020 18:42:40
BIOS FW GUID	DE0CAB05-41E9-5682-B82B-CA16D7FB4C4F
Manufacturer Name	Standard
Product Name	WL Series
Serial Number	To be filled by O.E.M.
UUID Number	03000200-0400-0500-0006-000700080009
SKU Number	To be filled by O.E.M.
Family	To be filled by O.E.M.
Baseboard Product	WL Series
Enclosure Type	Desktop
Ethernet MAC Address	80EE73F03444
Processor Information	
Processor Type	Intel(R) Core(TM) i3–8145UE CPU @ 2.20GHz
Processor Speed	2400 MHz
Memory Information	
Total Memory	4096 MB (DDR4)
Memory Frequency	2400 MHz
PCH Information	
Intel VT-d	Supported(Enabled)
ME FW Version	12.0.64.1551
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> Advanced Menu

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Advanced Setting		Enable/Disable integrated LAN to
Wake on LAN PowerOn by RTC Alarm Restore On AC Power Loss	[Disabled] [Disabled] [Power off]	wake the system.
Internal Connect Port Controlled SATA1 M.2 SATA M.2 PCIe	[Enabled] [Enabled] [Enabled]	
Internal Mass Storage Devices SATA1	Empty	
M.2 SATA M.2 PCIe	Empty KINGSTON RBUSNS8154P3128GJ (1	↔: Select Screen t↓: Select Item Enter: Select
▶ SIO Configuration		+/-: Change Opt. F1: General Help
External Display support	[VGA / DVI / DP]	F2: Previous Values F3: Optimized Defaults
▶ Trusted Computing		F4: Save & Exit ESC: Exit
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Specify what state to go to when power is re-applied after a power failure (G3 state).

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Set SIO configuration.

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Select Type for External Display board.

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Administrator Password User Password Password Login Control	NOT INSTALLED NOT INSTALLED [Both]	
Change Administrator Password Change User Password		
Secure Boot	[Disabled]	
HDD Security Configuration: TS128GMTE652T–I		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
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Password Login Control : [Setup / Boot / Both]

It's the timing for password prompt. If the user choose the setup , the system only ask the password when user get into the setup. If the user choose the boot, the system only ask the password when boot.

Change Administrator Password

It's the option for administrator password.

· Change User Password

It's the option for user password.

· Secure Boot

Enable / Disable the Secure Boot Support.

· Secure Boot Mode

Set the Secure Boot Mode status.

Boot Menu

Bootup NumLock State [On] Quiet Boot [Ena Fast Boot [Dis FIXED BOOT ORDER Priorities	abled]	Enable / Disable the LAN Remote Boot option
Boot Option #2[HarBoot Option #3[NetBoot Option #4[USE		<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

· LAN Remote Boot

Enable/Disable UEFI network stack.

Bootup NumLock state

Select the keyboard NumLock state.

• Quiet Boot

Enables/disables Quiet Boot option.

· Fast Boot

Enables/disables Fast Boot option.

➤ Exit Menu

Aptio Setup Utility – Copyright (C) 2015 American Megatren Main Advanced Security Boot <mark>Exit</mark>	ds, Inc.
Save and Exit Option	Reset the system after saving the
Save Changes and Reset	changes.
Discard Changes and Exit	
Restore Defaults	
	<pre> ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
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