

## FAQ - Frequently Asked Questions

### 10.1" Industry Tablet PC

#### PXE boot on Agile X series

- Required hardware
- BIOS setup

#### Relevant for

- Agile / Agile X

Status: November 2020

**Reservation:** Technical data subject to change without notice. Changes, errors and misprints may not be used as a basis for any claim for damages.



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# 1. Information of this FAQ



## Read carefully before commissioning the device.

The FAQ is an additional description to the available user manual and part of the device. The FAQ is directed at all persons who are entrusted with handling the device. Knowledge of the safety instructions and warnings in this FAQ and strict compliance with them is essential for safe handling.

- Carefully read the FAQ and especially the safety instructions before using the device.
- Make the FAQ accessible to all people who are entrusted with handling the device.

Warnings are used in this User Manual to warn of the risks of damage to property and personal injuries.

Symbol	Explanation
	Important advice and information for the effective, efficient and environmentally sound use of the product.
✓	Condition that must be met before the subsequent actions can be performed.
▶	Individual steps you must take.
1., 2., ...	Various steps to be performed in the order specified.
➔	Indication of the results of a step or of several steps for monitoring success.

## 1.1 Reference documents



All documents are available online from the following websites:

- BARTEC: [www.bartec.com](http://www.bartec.com) or <http://automation.bartec.de>

Document BARTEC	Explanation
Quick Start Guide of: <ul style="list-style-type: none"> <li>• Agile / Agile X</li> </ul>	<u>It contains:</u> <ul style="list-style-type: none"> <li>• Guidelines on commissioning and the safe use of hand-held scanners (including installation, safety information related to explosion protection and information regarding programming)</li> </ul>

Document BARTEC	Explanation
User Manual of: <ul style="list-style-type: none"><li data-bbox="518 286 708 320">• Agile / Agile X</li></ul>	<u>It contains:</u> <ul style="list-style-type: none"><li data-bbox="884 286 1441 465">• All essential information for the user to make full use of the device. This manual includes a description of the system functions and capabilities, contingencies and modes of operation, and step-by-step procedures for system access and use.</li><li data-bbox="884 479 1441 611">• Guidelines on commissioning and the safe use of hand-held scanners (including installation, safety information related to explosion protection and information regarding programming)</li></ul>

## 2. About PXE

PXE = Preboot Execution Environment

The Agile X series support the PXE boot mode.

The following instruction provides information about required equipment and BIOS setup.

## 3. Notes to PXE

First, check that your PXE server supports **UEFI** or **LEGACY** or both.

This information is required for correct setup.

The settings on Agile X series and your PXE server must be identical that PXE boot can work correct.

## 4. Required software and hardware

Agile X series only support Ethernet and must use one of the following accessories to setup and proceed PXE.

### 4.1 Required software

We recommend to use the latest available BIOS version for this devices.

The latest version is listed on BARTEC support & Download page.

<https://automation.bartec.de/tabletpcE.htm>

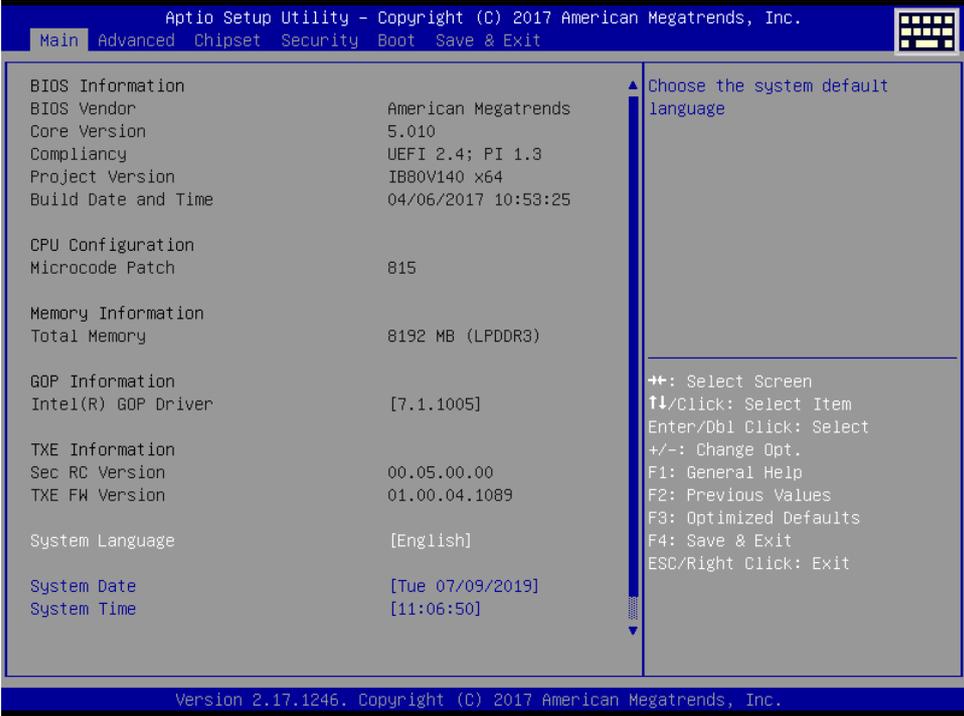
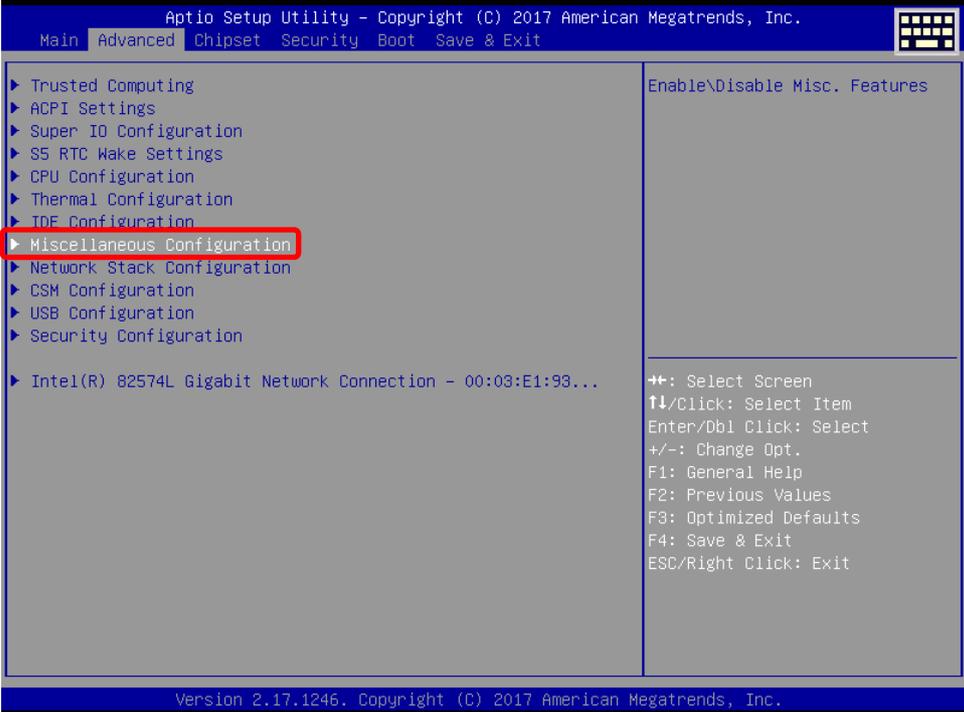
Select your product and go to section Driver. There you will find a Note what BIOS version is currently available.

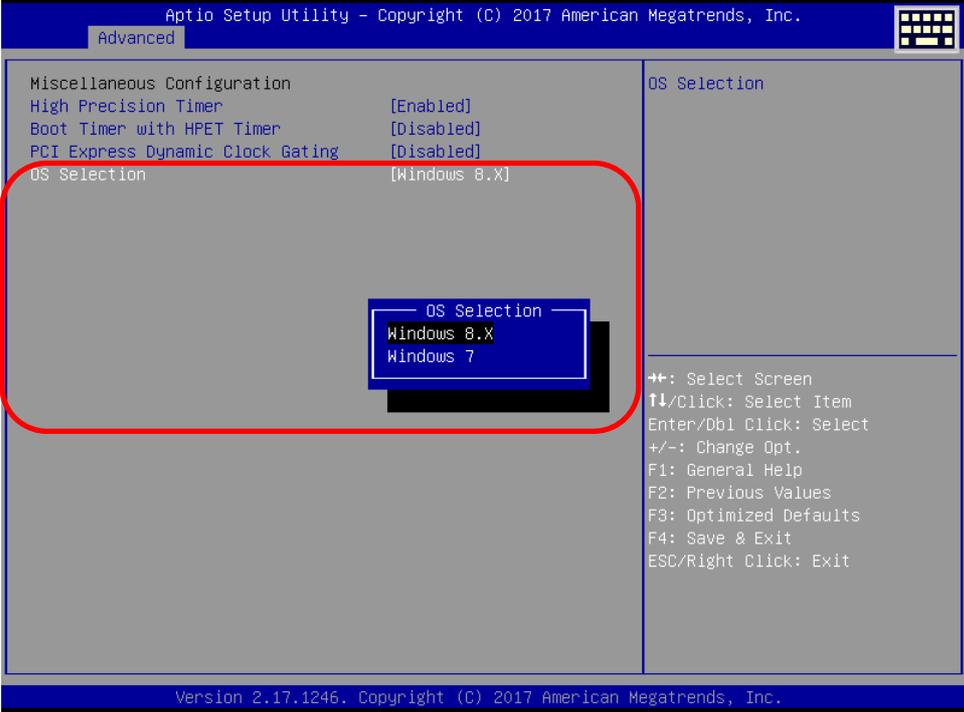
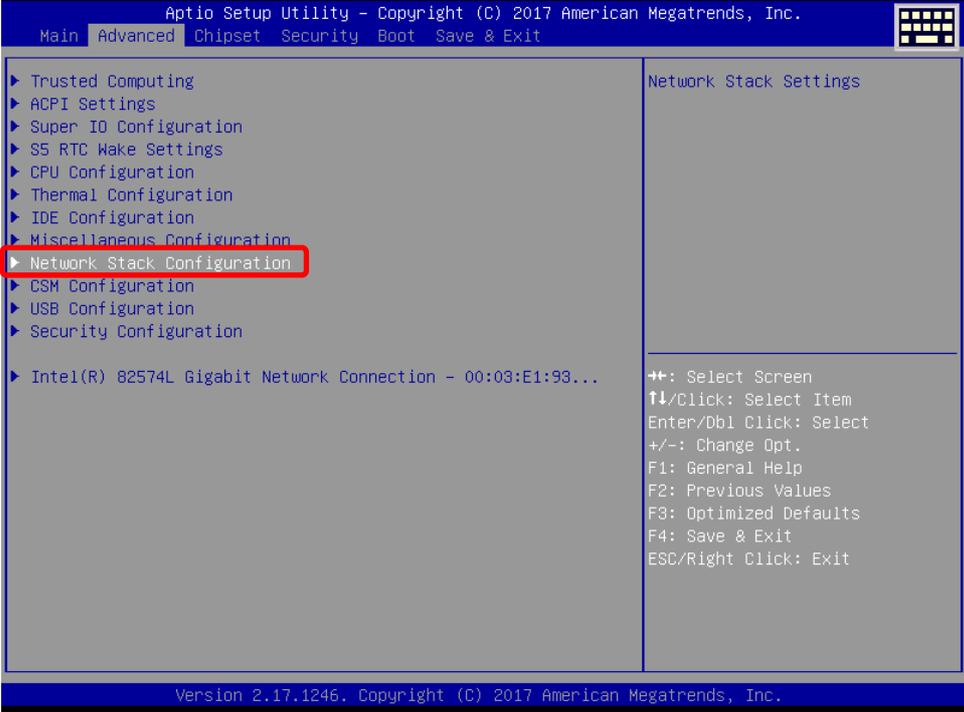
If you have an older version you can use the contact information on same page to request the latest BIOS version.

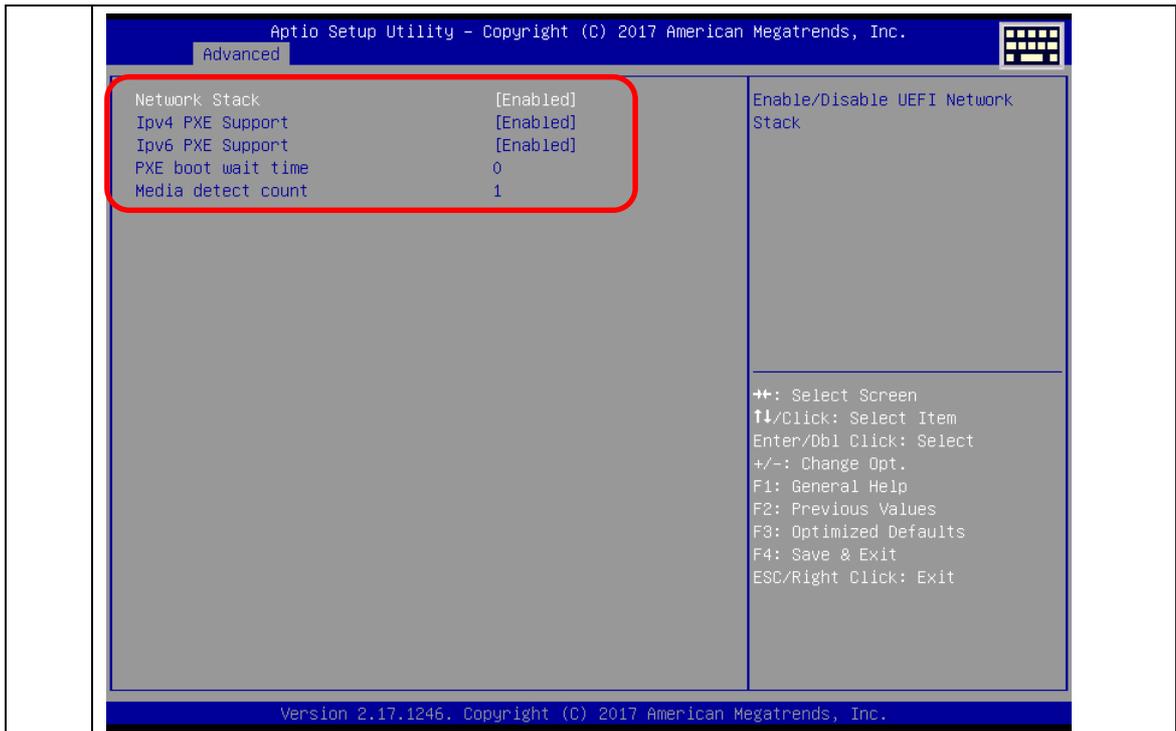
## 4.2 Required hardware

 A black adapter cable with a square RJ45 female connector on one end and a 30-pin extension port on the other.	<p><b>Adapter cable LAN</b> for LAN from 30 pin extension port Connector RJ45 female Type: 03-9919-0022 SAP 374937 Compatible Tablet PC</p> <ul style="list-style-type: none"><li>• Agile</li><li>• Agile X</li></ul>
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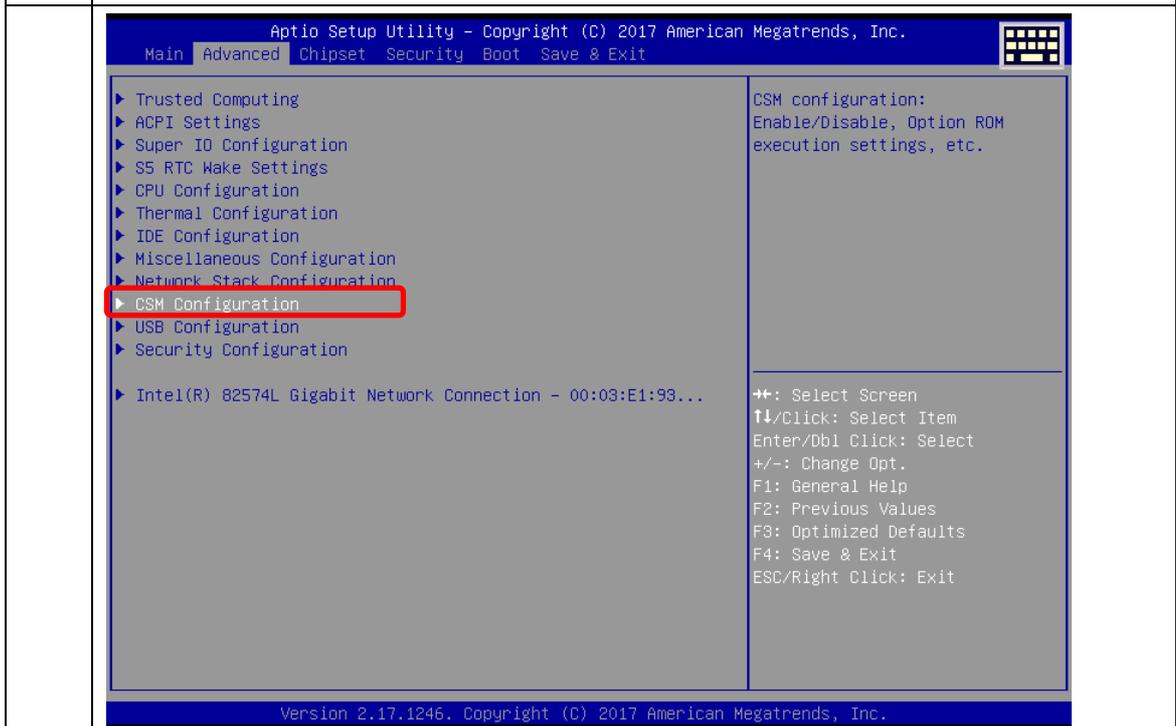
## 5. PXE – BIOS setup

1.	Connect external keyboard to the Agile X.
2.	Start or restart the device and enter BIOS. Press “DEL”/“ENTF” key in start screen with BARTEC logo.
	 <p>The screenshot shows the Aptio Setup Utility Main menu. The title bar reads 'Aptio Setup Utility - Copyright (C) 2017 American Megatrends, Inc.' and the menu bar includes 'Main', 'Advanced', 'Chipset', 'Security', 'Boot', and 'Save &amp; Exit'. The main area is divided into two columns. The left column lists system information: BIOS Information (Vendor: American Megatrends, Core Version: 5.010, Compliance: UEFI 2.4; PI 1.3, Project Version: IB80V140 x64, Build Date and Time: 04/06/2017 10:53:25), CPU Configuration (Microcode Patch: 815), Memory Information (Total Memory: 8192 MB (LPDDR3)), GOP Information (Intel(R) GOP Driver: [7.1.1005]), TXE Information (Sec RC Version: 00.05.00.00, TXE FW Version: 01.00.04.1089), System Language ([English]), System Date ([Tue 07/09/2019]), and System Time ([11:06:50]). The right column is titled 'Choose the system default language' and contains a list of keyboard shortcuts: ++: Select Screen, ↑/Click: Select Item, Enter/Dbl Click: Select, +/-: Change Opt., F1: General Help, F2: Previous Values, F3: Optimized Defaults, F4: Save &amp; Exit, and ESC/Right Click: Exit. A vertical scrollbar is visible between the two columns. The footer reads 'Version 2.17.1246. Copyright (C) 2017 American Megatrends, Inc.'</p>
3.	Go to “Advanced” and select “Miscellaneous Configuration”
	 <p>The screenshot shows the Aptio Setup Utility Advanced menu. The title bar and menu bar are the same as in the previous screenshot. The main area lists various configuration options: Trusted Computing, ACPI Settings, Super IO Configuration, S5 RTC Wake Settings, CPU Configuration, Thermal Configuration, IDE Configuration, Miscellaneous Configuration (highlighted with a red box), Network Stack Configuration, CSM Configuration, USB Configuration, Security Configuration, and Intel(R) 82574L Gigabit Network Connection - 00:03:E1:93... The right column is titled 'Enable\Disable Misc. Features' and contains the same list of keyboard shortcuts as the previous screenshot. The footer reads 'Version 2.17.1246. Copyright (C) 2017 American Megatrends, Inc.'</p>

4.	<p>Go to "OS Selection" and select your operating system.          Windows 8.X =&gt; for Windows 8.1 or Windows 10 operating system          Windows 7 =&gt; for Windows 7 operating system</p>
	 <p>The screenshot shows the 'Advanced' tab of the Aptio Setup Utility. The 'OS Selection' option is highlighted with a red box. A sub-menu is open, showing 'Windows 8.X' and 'Windows 7' options. The utility title is 'Aptio Setup Utility - Copyright (C) 2017 American Megatrends, Inc.' and the version is 'Version 2.17.1246. Copyright (C) 2017 American Megatrends, Inc.'</p>
5.	<p>Go to "Advanced" and select "Network Stack Configuration"</p>
	 <p>The screenshot shows the 'Advanced' tab of the Aptio Setup Utility. The 'Network Stack Configuration' option is highlighted with a red box. The utility title is 'Aptio Setup Utility - Copyright (C) 2017 American Megatrends, Inc.' and the version is 'Version 2.17.1246. Copyright (C) 2017 American Megatrends, Inc.'</p>
	<p>Enable "Network Stack" and make your settings compliant to your server.</p>

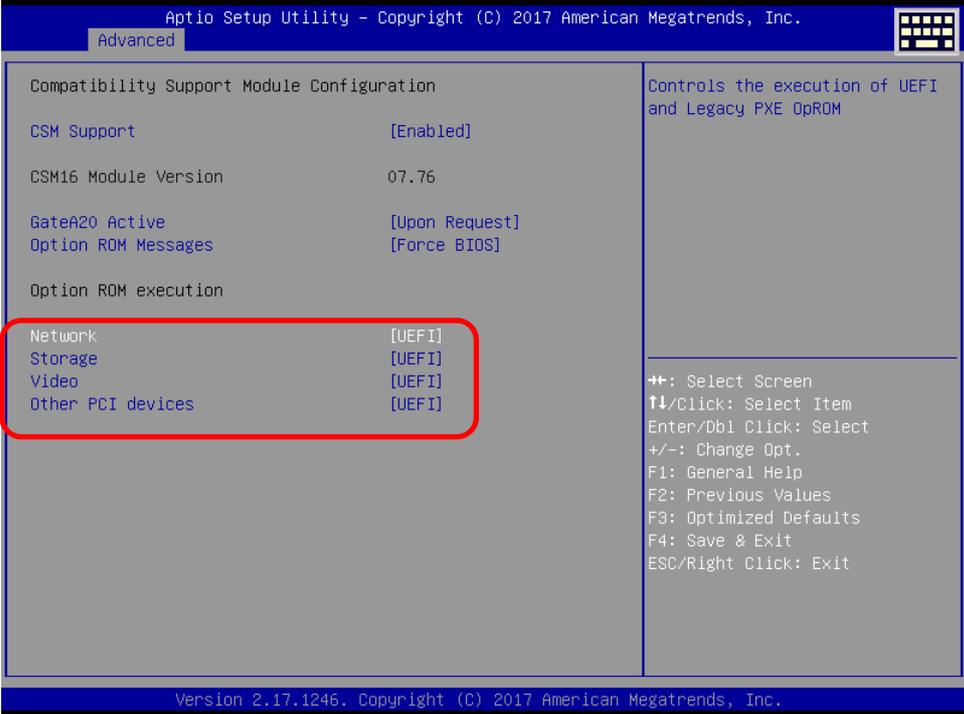
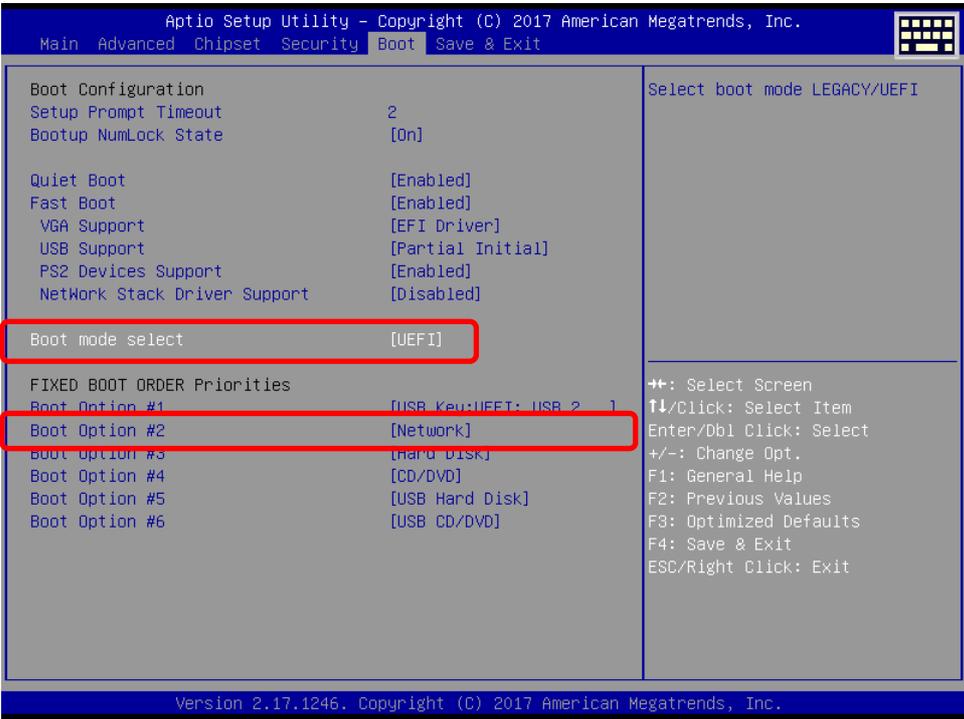


6. Go to "Advanced" and select "CSM Configuration"



Setup following settings according to your server to "Legacy" or "UEFI".

- Network
- Storage
- Video
- Other PCI devices

	 <p>Aptio Setup Utility - Copyright (C) 2017 American Megatrends, Inc. Advanced</p> <p>Compatibility Support Module Configuration</p> <p>Controls the execution of UEFI and Legacy PXE OpROM</p> <p>CSM Support [Enabled]</p> <p>CSM16 Module Version 07.76</p> <p>GateA20 Active [Upon Request]</p> <p>Option ROM Messages [Force BIOS]</p> <p>Option ROM execution</p> <p>Network [UEFI]</p> <p>Storage [UEFI]</p> <p>Video [UEFI]</p> <p>Other PCI devices [UEFI]</p> <p>++: Select Screen ↑/Click: Select Item Enter/Dbl Click: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC/Right Click: Exit</p> <p>Version 2.17.1246. Copyright (C) 2017 American Megatrends, Inc.</p>
<p>7.</p>	<p>Go to <b>"Boot"</b> and select: <b>"Boot mode select"</b> according to your server to <b>"Legacy"</b> or <b>"UEFI"</b> Boot option to <b>"Network"</b></p>
	 <p>Aptio Setup Utility - Copyright (C) 2017 American Megatrends, Inc. Main Advanced Chipset Security Boot Save &amp; Exit</p> <p>Boot Configuration</p> <p>Select boot mode LEGACY/UEFI</p> <p>Setup Prompt Timeout 2</p> <p>Bootup NumLock State [On]</p> <p>Quiet Boot [Enabled]</p> <p>Fast Boot [Enabled]</p> <p>VGA Support [EFI Driver]</p> <p>USB Support [Partial Initial]</p> <p>PS2 Devices Support [Enabled]</p> <p>NetWork Stack Driver Support [Disabled]</p> <p>Boot mode select [UEFI]</p> <p>FIXED BOOT ORDER Priorities</p> <p>Boot Option #1 [USB Key:UEFI: USB 2.0 1]</p> <p>Boot Option #2 [Network]</p> <p>Boot Option #3 [Hard Disk]</p> <p>Boot Option #4 [CD/DVD]</p> <p>Boot Option #5 [USB Hard Disk]</p> <p>Boot Option #6 [USB CD/DVD]</p> <p>++: Select Screen ↑/Click: Select Item Enter/Dbl Click: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC/Right Click: Exit</p> <p>Version 2.17.1246. Copyright (C) 2017 American Megatrends, Inc.</p>
<p>8.</p>	<p>Go to <b>"Save &amp; Exit"</b>. Select <b>"Save Changes and Exit"</b> to leave BIOS.</p>