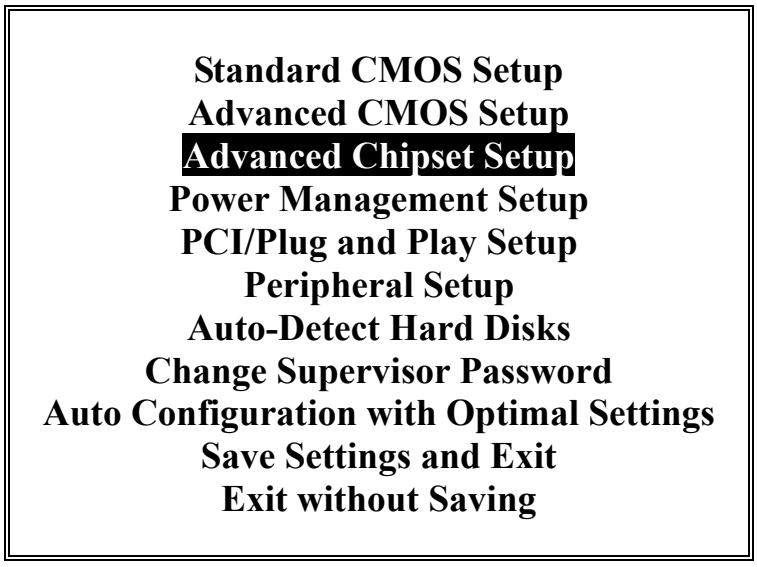
eBox Boot ROM Setup Manual

BIOS Setup

1. This eBox has a built-in AMI BIOS; AMI BIOS has a built-in BOOT ROM Setup program that allows users to modify the basic BOOT ROM configuration. Regarding to the Setup process as below, eBox can run the BOOT ROM program successfully.

2. Power ON the computer, BIOS will start running POST (Power on Self Test) and press <Del> immediately. It will allow you to enter the Setup. If the message disappears before responding and you still want to enter the Setup, you may need to restart the unit by pressing <Ctrl>, <Alt>, and <Del> keys simultaneously.

3. After entering the BIOS CMOS Setup Utility, the Main Menu will show on the screen as Picture 1, and then select the item “Advance Chipset Setup” and press <Enter> to enter the sub-menu.



(Picture 1)

4. After getting in the sub-menu, it will show the information on the screen as Picture 2, and then select the item “Root ROM Function” and press <page down>or <page up> to change the value to “Enable”. Please press <ESC> escape to the main menu, and then press <F10> and press <Enter>. The system will save the change into CMOS SRAM and reboot the unit.

CPU/DRAM BASE Frequency		**100/133 Mhz**
Boot ROM Function		**Enable**
SDRCLK Control	**,0CH[7:4]:**	**02**
SDWCLK(I) For CS#/CKE	**,8Ch[3:0]:**	**10**
SDWCLK(II) For MA/SRAS#	**,8Dh[7:4]:**	**10**
SDWCLK(III) For DQM/MD	**,8Dh[3:0]:**	**10**
FBCRCLK CONTROL	**,8Fh[7:4]:**	**06**
FBCRCLK CONTROL	**,8Fh[3:0]:**	**0B**

(Picture 2)

BOOT Agent setup configuration：

1. When finished the BIOS setup, the next step is configuring the “Boot ROM” setup. After booting, user will see the information on the screen as Picture 3, and then press <Shift> and <F10> to get into the “Boot Agent Configuration” setup screen, If the message disappears before responding, you may need to restart the unit by pressing <Ctrl>, <Alt>, and <Del> keys simultaneously.

Realtek RTL8139(X)/8130/810X boot Agent
Press Shift-F10 to configure ……

(Picture 3)

2. After entering “Boot Agent” setup menu, users will see the information on the screen as Picture 4. Please press<Enter> to select the item, which users want to setup, and then press <space bar> to change the value.

Network boot protocol	**PXE**
Boot Order	**Int 19H**
Show Config Message	**Enable**
Show Message Time	**3 seconds**

Always boot network first then local devices.

<ESC>	<Space>	<Enter>	<F4>
Quit	Change Value	Next Option	Save/Quit

(Picture 4)

● Network Boot Protocol

This category determines the protocol that will be used when Boot ROM is booting.

PXE	PXE Network Protocol (Pre-Boot Execution Environment)
RPL	RPL Network Protocol (Remote Initial Program Load)

● Boot Order

This category determines the boot order to boot the operation system.

Int 18h	Boot the devices ordered in BIOS Setup
Int 19h	Always boot network first then local devices
PnP/BEV(BBS)	Boot ordered by BBS BIOS if BBS BIOS Present
ROM Disable	Network boot disable, boot local devices

● Show Config Message

Set the Config Message will show on the screen

Disable	Disable to show Config Message
Enable	Enable to shoe Config Message

● Show Message Time

Set the Message Time

3 seconds	Set the Show message to 3 seconds
5 seconds	Set the Show message to 5 seconds
8 seconds	Set the Show message to 8 seconds

3. After finished the setup configuration, please press <F4> to save and exit, and then users can Boot their OS from Boot Agent.

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