G-10X7Q Motherboard

User Guide

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1

1.1

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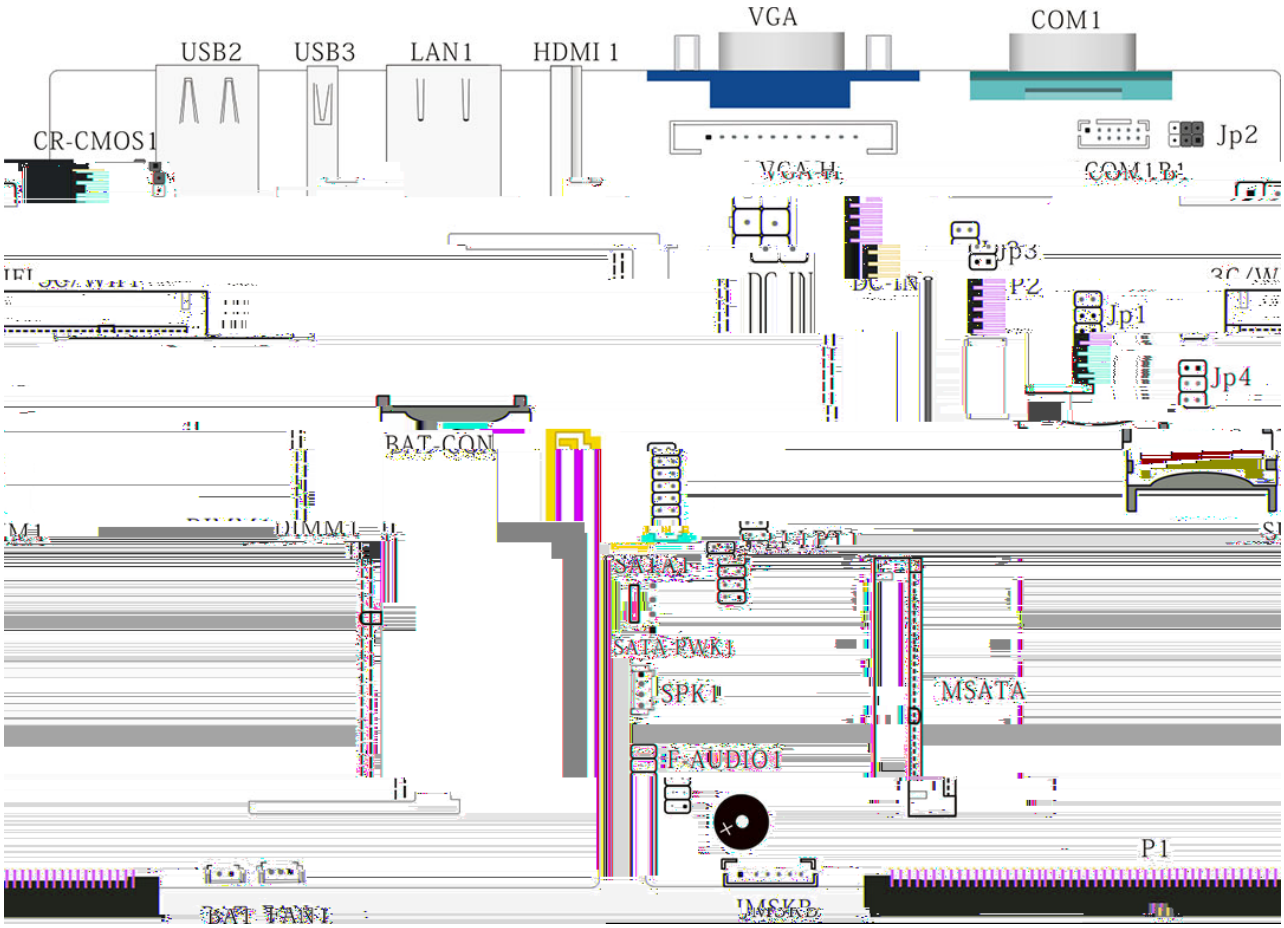
1.2

1.5


VGA
COM1
USB2
USB3
LAN1
HDMI 1
CR-CMOS1
Jp2
Jp3
P2
Jp1
Jp4
BAT_CON
SATA_PWR1
SPK1
MSATA
F_AUDIO1
P1

: 1pin

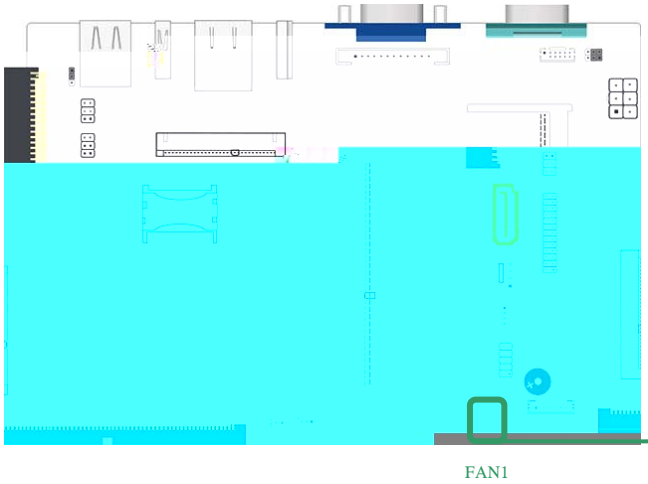
2

2.1 CPU

Intel® Ivy Bridge1037/I3 3227U/337U CPU,

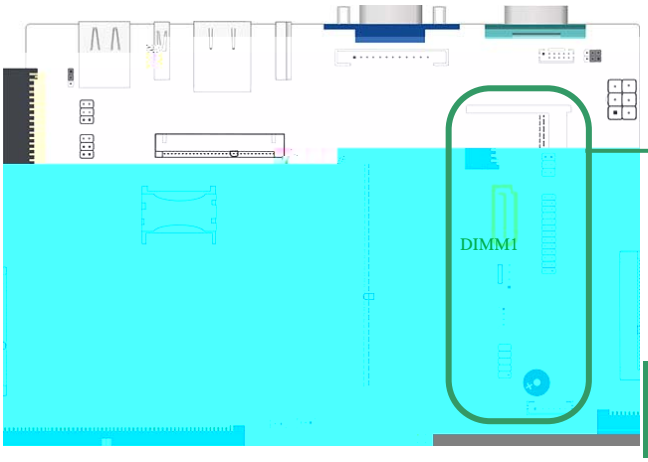
2.2

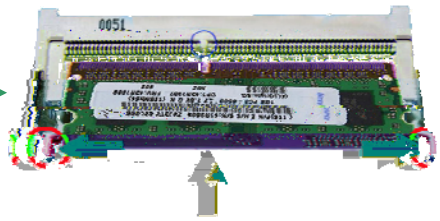
CPU



1	GND
2	+12V
3	

2.3



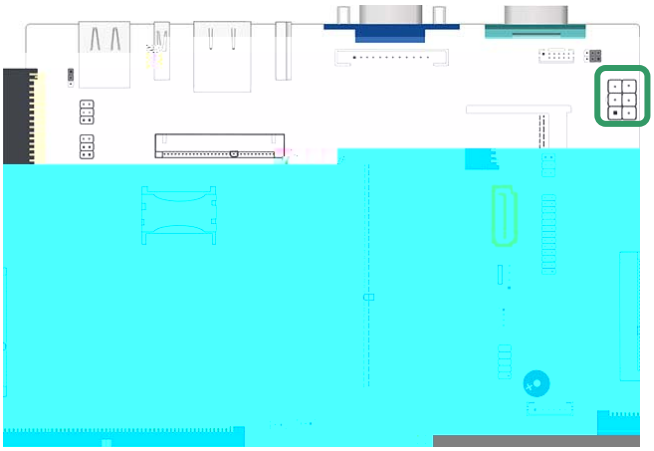


	204	1066/1333/1600MHz	8GB

2.3.1 30

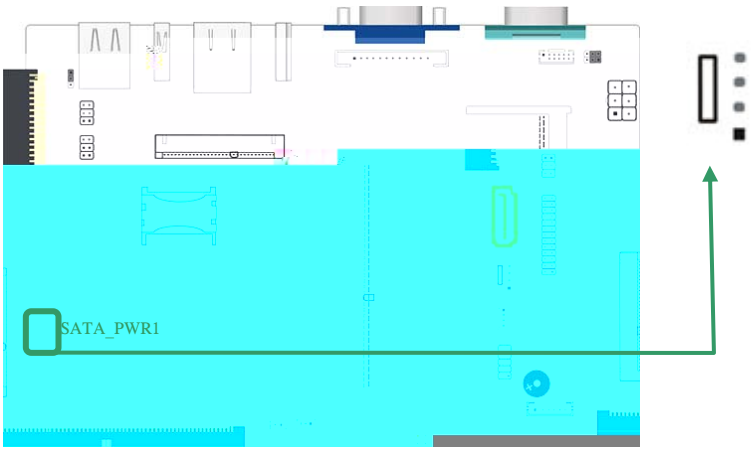
2.3.2

2.4



1	GND	2

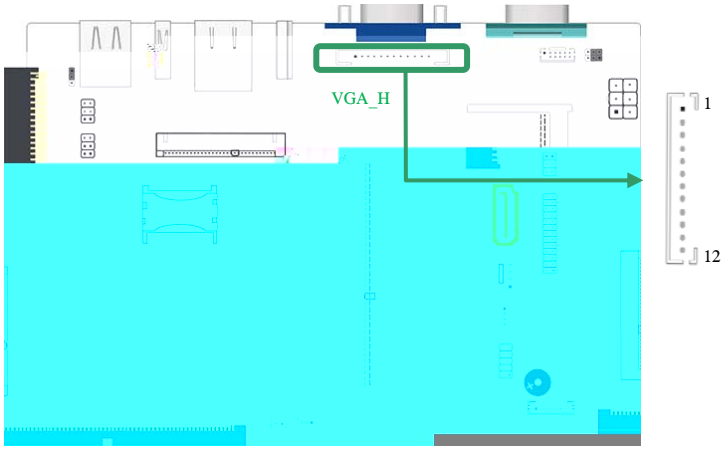
SATA_PWR1



1	+12V
2	GND
3	GND
4	+5V

2.5 / / /

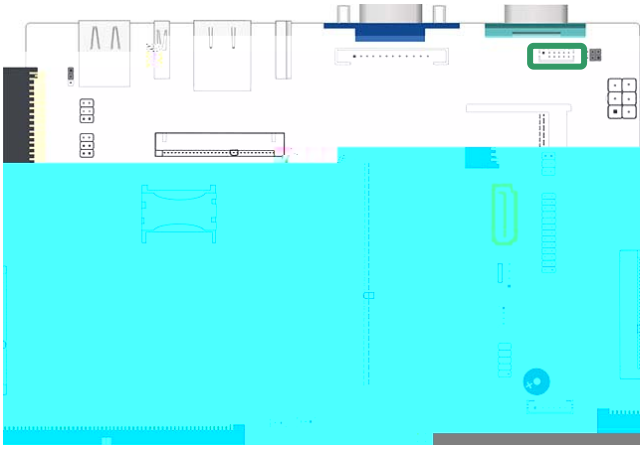
1 VGA IO VGA1



1	RED_R	7	GND
2	DCDATA	8	DDCCLK
3	GND	9	BLUE_R
4	HSYNC	10	DAC_5V
5	GREEN_R	11	GND
6	VSYNC	12	GND

1 VGA 1 VGA 1 24bit LVDS
3 :

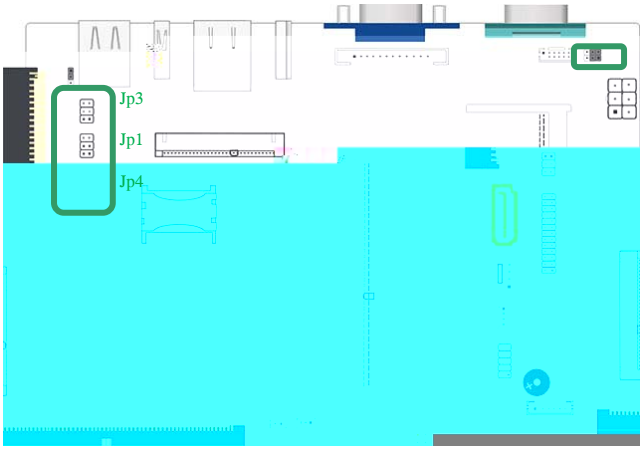
VGA1+VGA_H1	
VGA1/VGA_H1+LVDS1	/



COM1B1

1	DCD	2	SIN
3	SOUT	4	DTR
5	GND	6	DSR
7	RTSB	8	CTS
9	RIB	10	NC

2 COM1-2 5V/12V



Jp2

Jp3

Jp1

Jp4

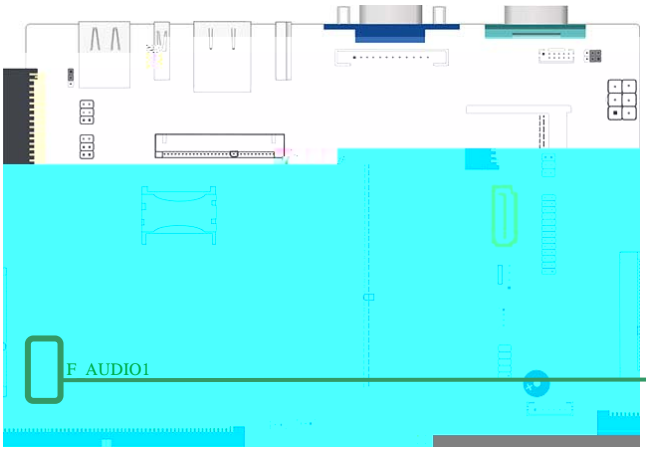
1-2	+5V
3-4	+12V
5-6	RI#( )

Jp2

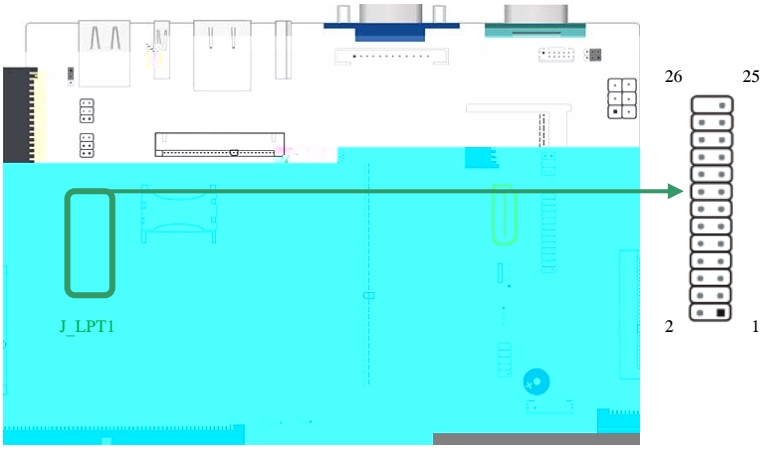
JP2

RS-232	1-3 2-4
RS-485	3-5 4-6

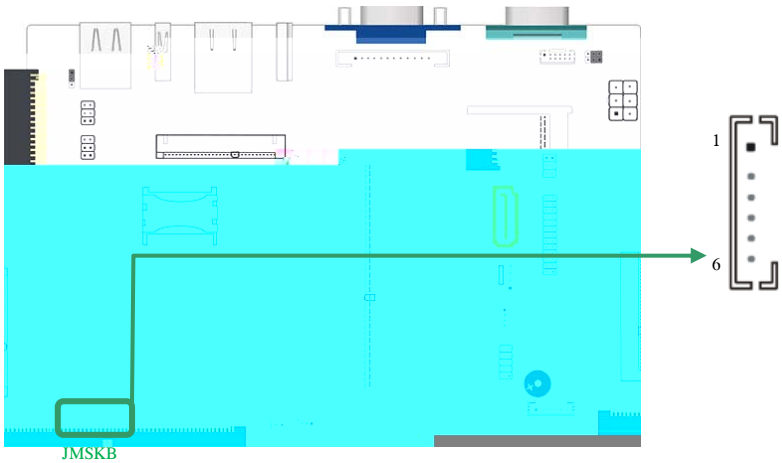
: COM1-6 RI



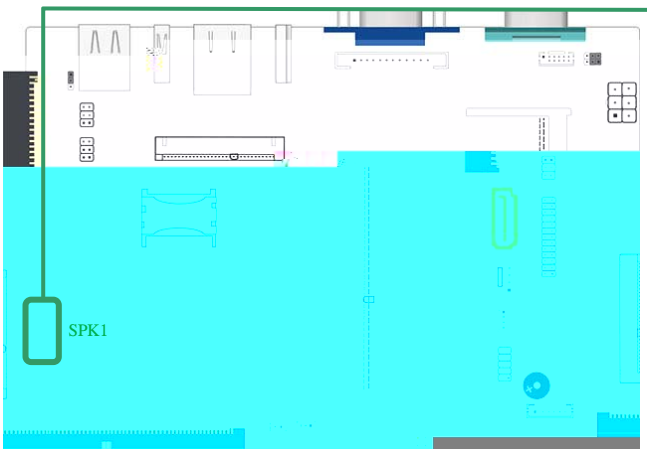
1	GPO0	2	GPI0
3	GPO1	4	GPI1
5	GPO2	6	GPI2
7	GPO3	8	GPI3
9	5V	10	NC
11	12V	12	GND

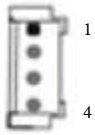


1	STB#	2	AFD#
3	PD0	4	ERR#
5	PD1	6	INIT#
7	PD2	8	SLIN#
9	PD3	10	GND
11	PD4	12	GND
13	PD5	14	GND
15	PD6	16	GND
17	PD7	18	GND
19	ACK#	20	GND
21	BUSY	22	GND
23	PE	24	GND
25	SLCT	26	



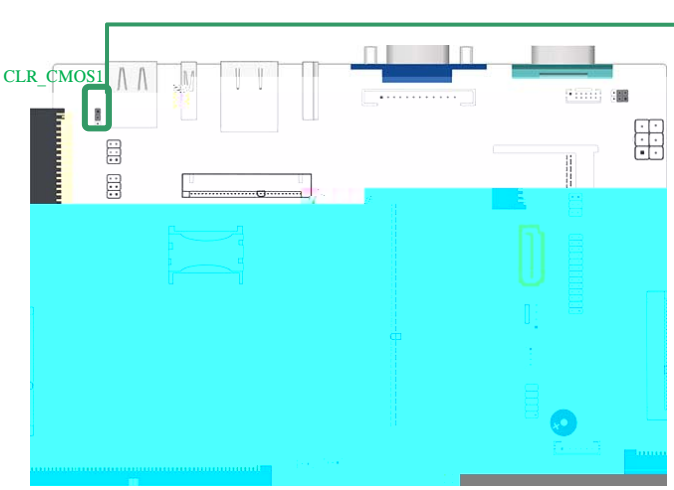
1	KB_CLK
2	GND
3	KB_DATAGND
4	MS_DATA
5	+5V
6	MS_CLK

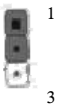




1	+
2	-
3	-
4	+

Pin2-3 BIOS





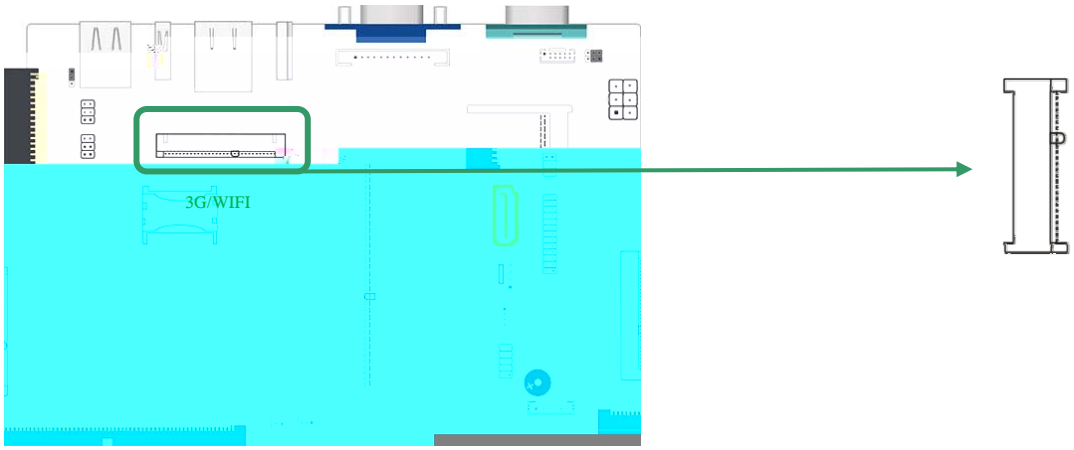
1-2	Normal
2-3	Clear CMOS

“Pin 2-3 ”

5

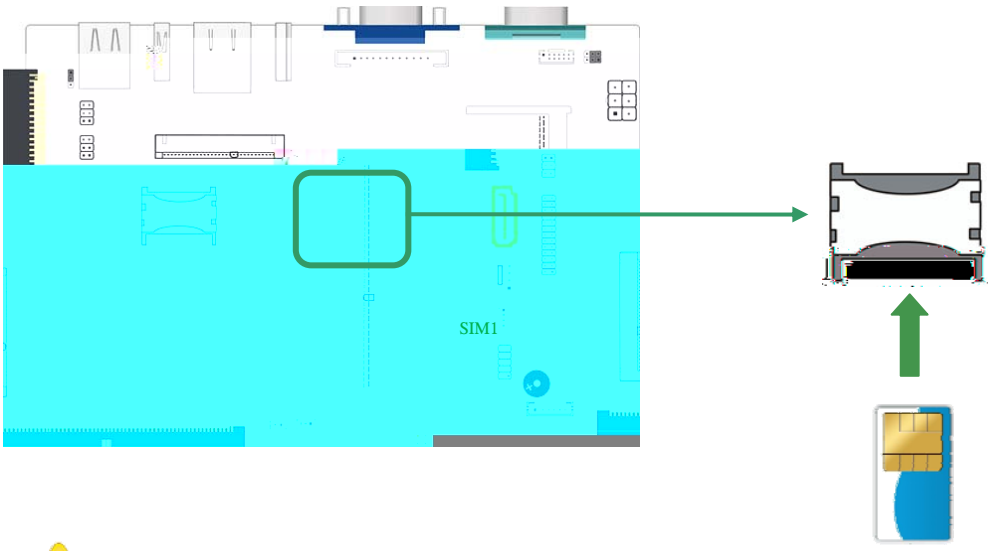
“Pin 1-2 ”

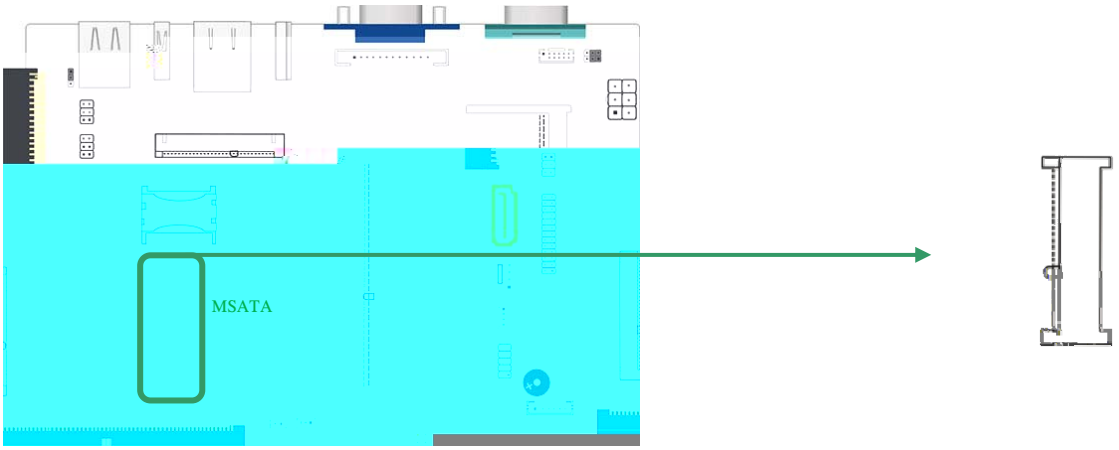
COMS



WIFI/3G

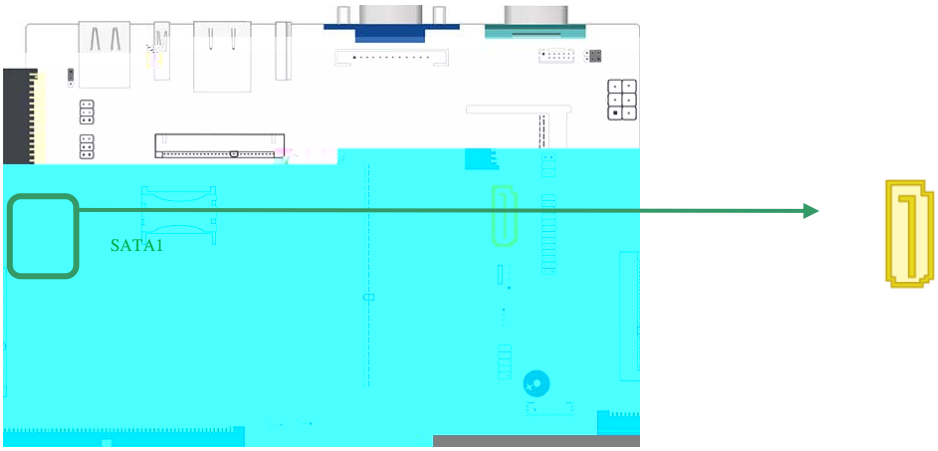
1 SIM 3G SIM



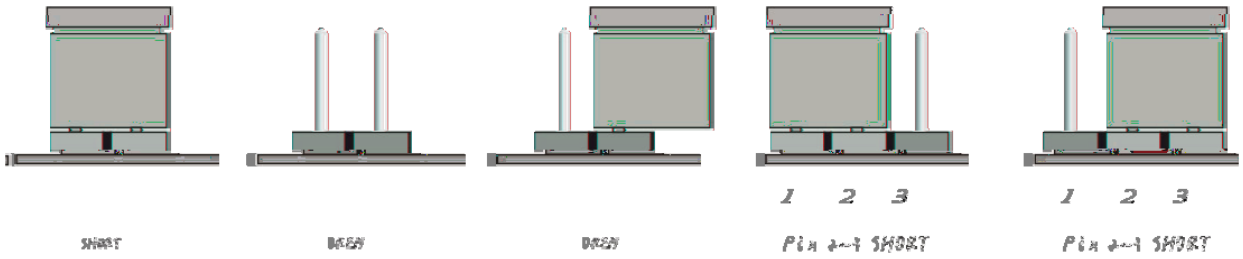


SSD

SATA3.0 6Gb/s



: 2



3 BIOS

ENTER	
+/-	
F1	
F2	
F3	
F4	
ESC	

BIOS

DOS UEFI BIOS

FPT.EXE

BIOS FPT /D < BIOS > bakup.BIN

4 BIOS FPT /F < BIOS > NEWBIOS.BIN

5 DEL CMOS

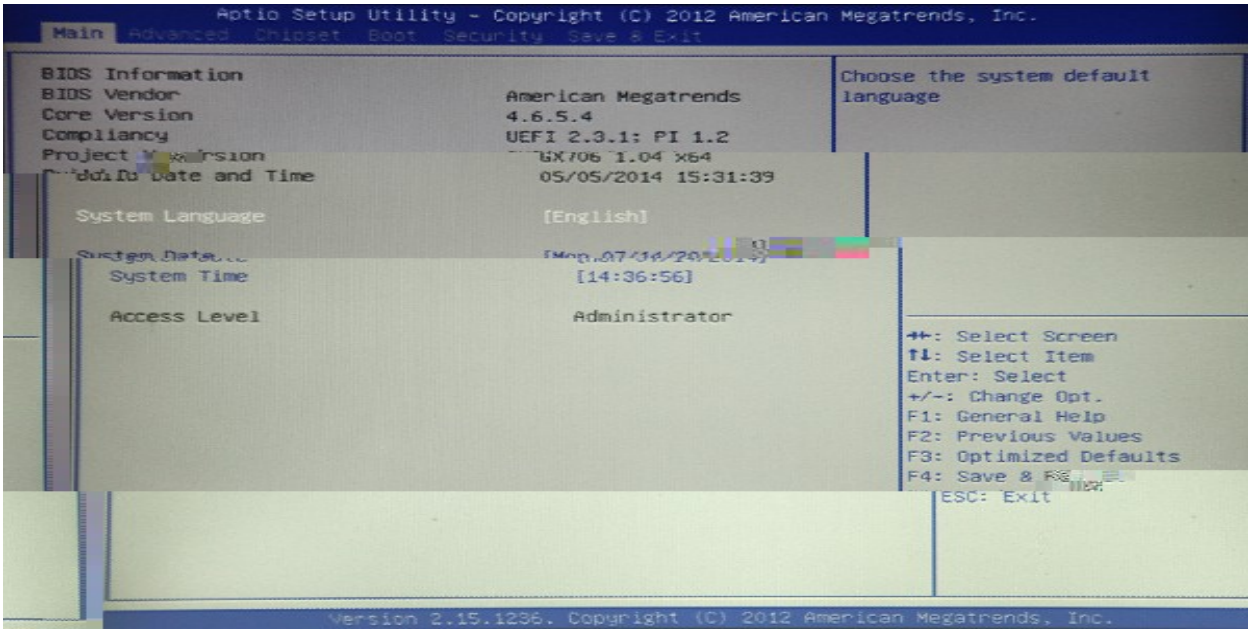
BIOS

BIOS

BIOS BIOS

EFI BIOS

＜Enter＞



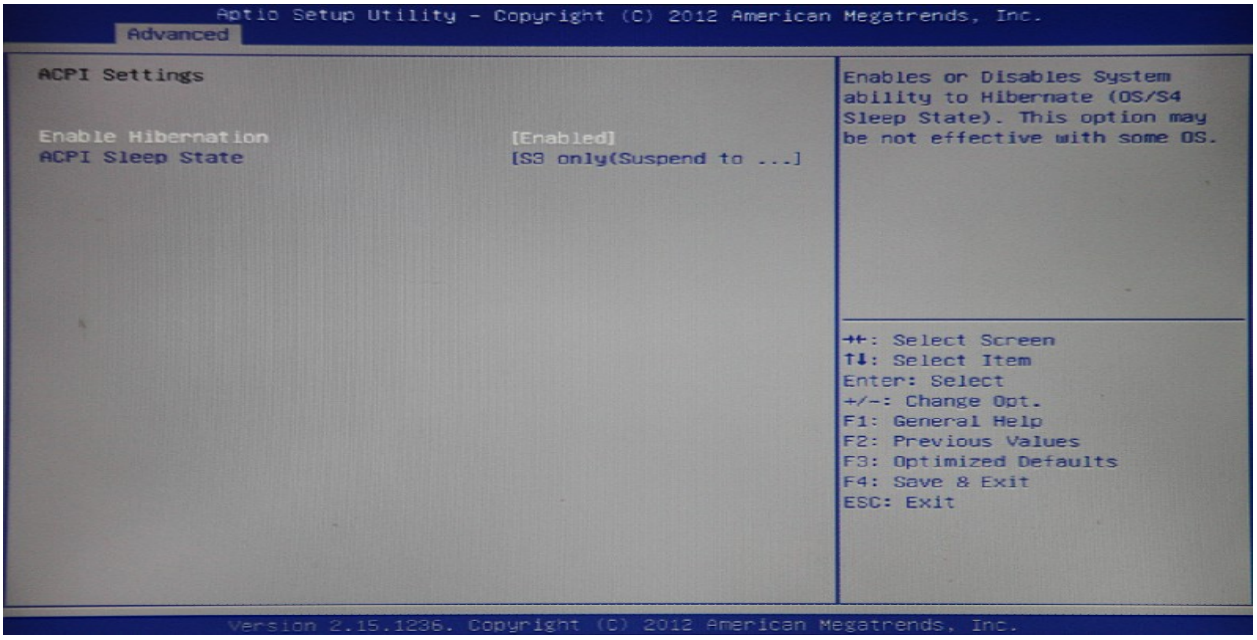
BIOS BIOS

BIOS

* / /

3.2 ADVANCED MENU

CPU I/O



Enable Hibernation

Enabled Disabled Enabled

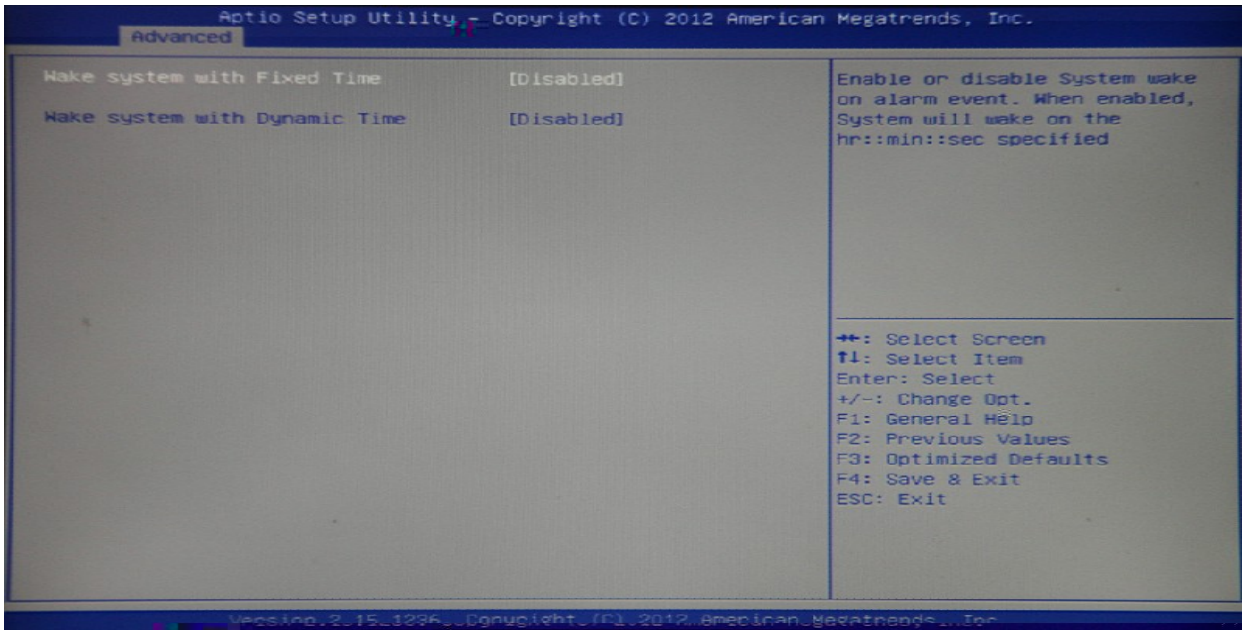
ACPI Sleep State ACPI

ACPI

Suspend Disabled
S1 only(CPU Stop Clock) CPU CPU
S3 only(Suspend to RAM) ACPI

Both S1 and S3 available for OS to choose from S1 S3

S5 RTC Wake Settings S5

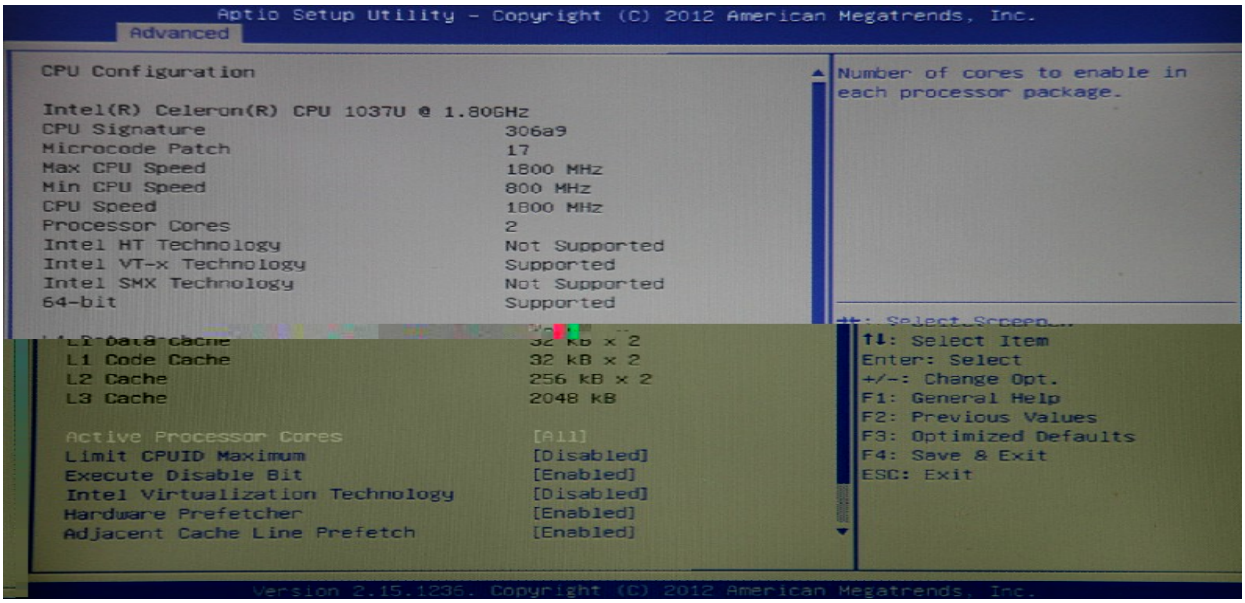


Wake system with Fixed Time Disabled

Wake system with Dynamic Time Disabled

CPU Configuration CPU

BIOS CPU .



Active Processor Cores[ALL]

, ALL, 1

Limit CPUID Maximum[Disabled]

CPUID [Enabled] [Disabled] [Enabled]

Execute Disable Bit [Enabled]

No-Excution Page Protection [Enabled] XD 0
[Disabled][Enabled]

Intel Virtualization Technology [Disabled]

, [Disabled][Enabled]

Hardware prefetcher [Enabled]

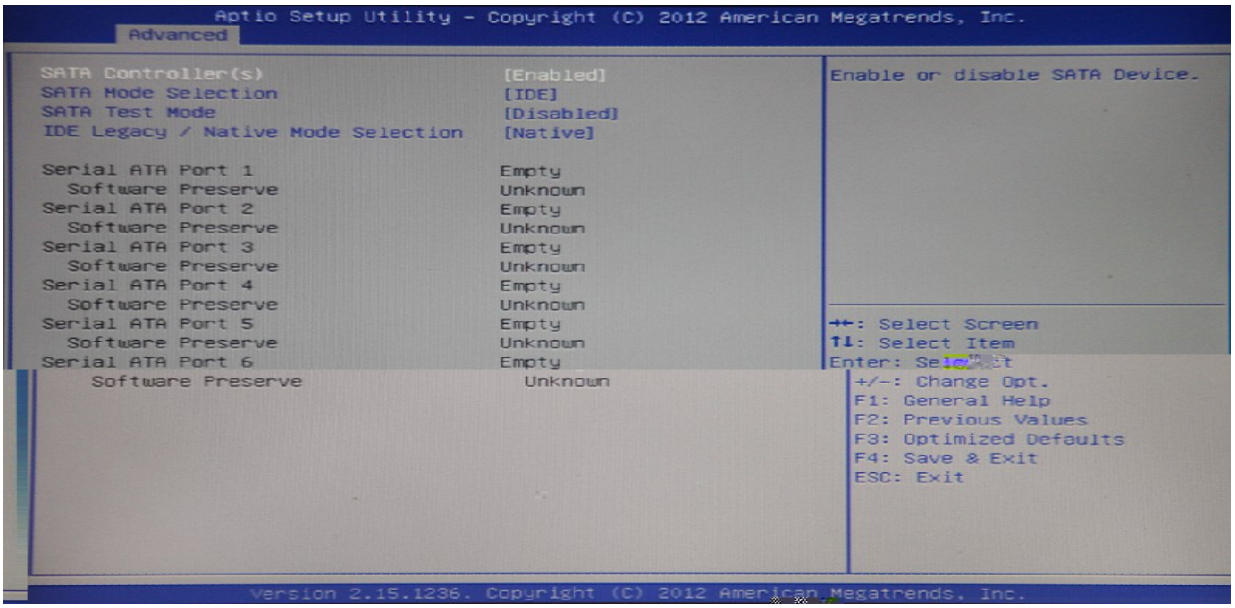
[Enabled] , [Disabled]

Adjacent cache line prefetch [Enabled]

/ . [disabled] , 64 128
( ). [enable] .
:[Enabled] , [Disabled]

SATA Configuration SATA

SATA



SATA Controller(s) [Enabled]

SATA :[Enabled] , [Disabled]

SATA Mode Selection [IDE]

SATA IDE,AHCI,RAID

SATA Test Mode[Disabled]

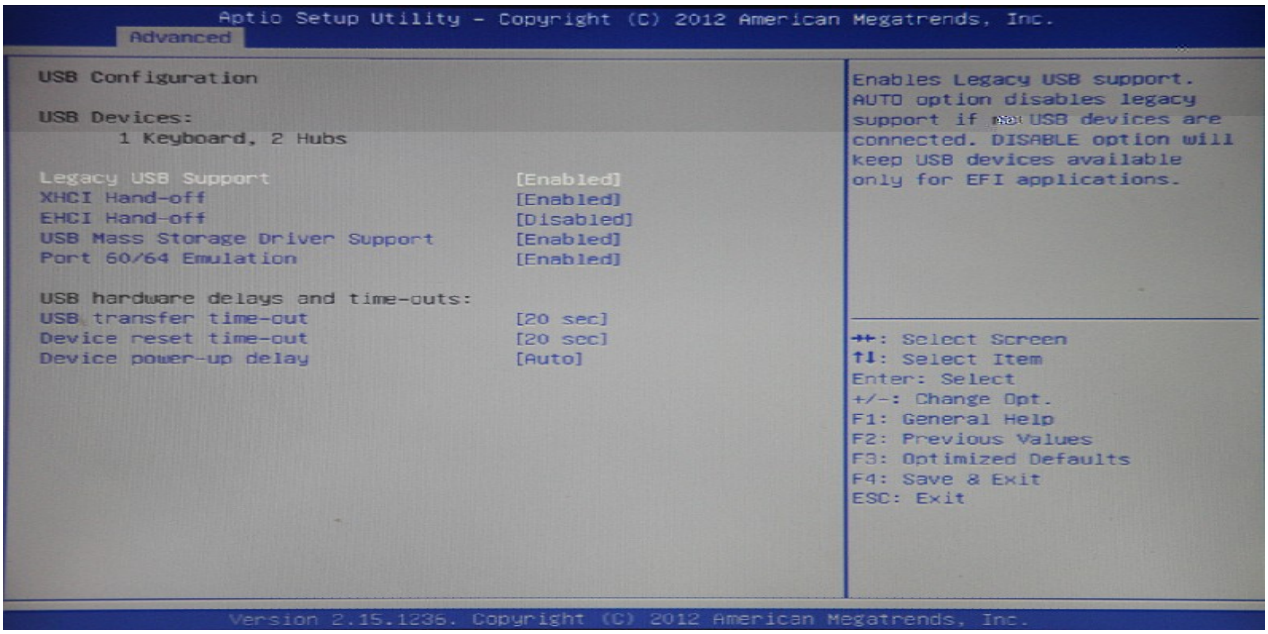
SATA :[Enabled] , [Disabled]

IDE Legacy/Native Mode Selection[Native]

IDE IDE Legacy IDE IRQ Native IDE
SATA XP WIN 9X Legacy IDE Native Legacy

USB Configuration (USB)

USB Devices **None**



Legacy USB Support [Enabled]

USB **[Auto]** **USB**

USB **[Disabled]**

USB **USB**

[Disabled] [Enabled] [Auto]

XHCI HAND-OFF [Enabled]

EHCI HAND-OFF **EFI** **OS** **USB driver** **USB**

Enabled, **USB** **OS** **EFI** **XHCI** **USB2.0**

EHCI Hand-off [Disabled]

EHCI hand-off **[Disabled] [Enabled]** **Enabled,**

USB **OS** **EFI** **EHCI** **USB2.0**

Port 64/60 Emulation [Enabled]

USB **64/60** **USB**

USB Transfer time-out [20sec]

USB2.0 **EFI**

EFI **OS** **USB**

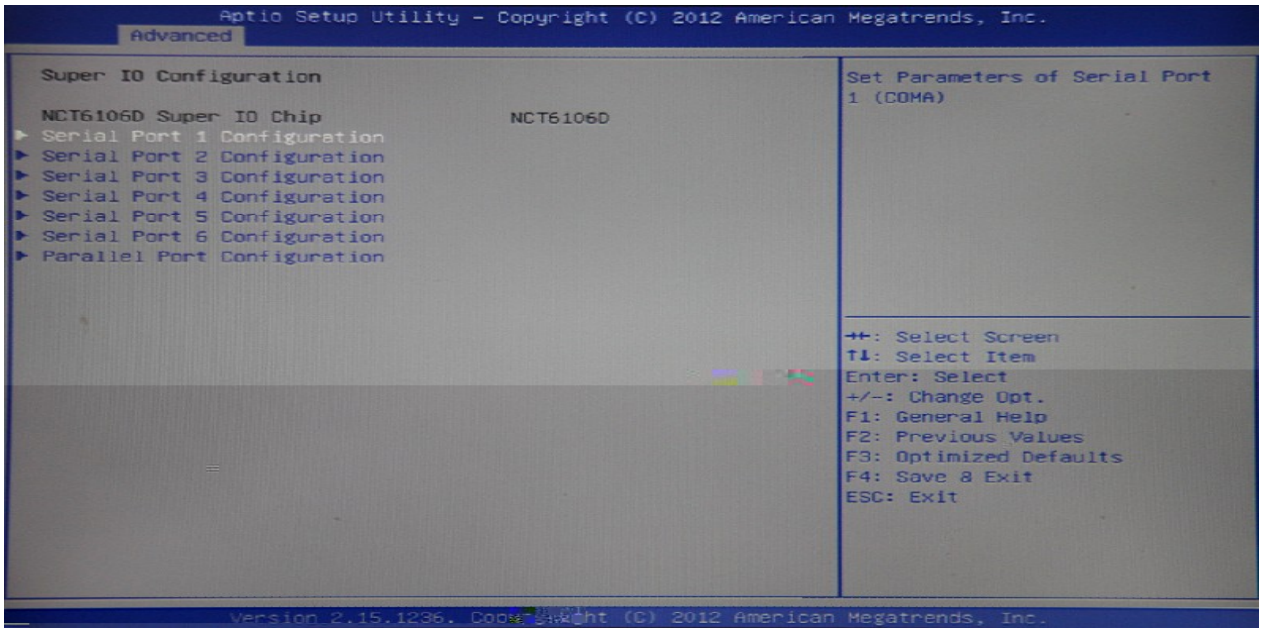
Device reset time-out [20sec]

USB2.0 **reset** **EFI**

Device power-up delay [Auto]

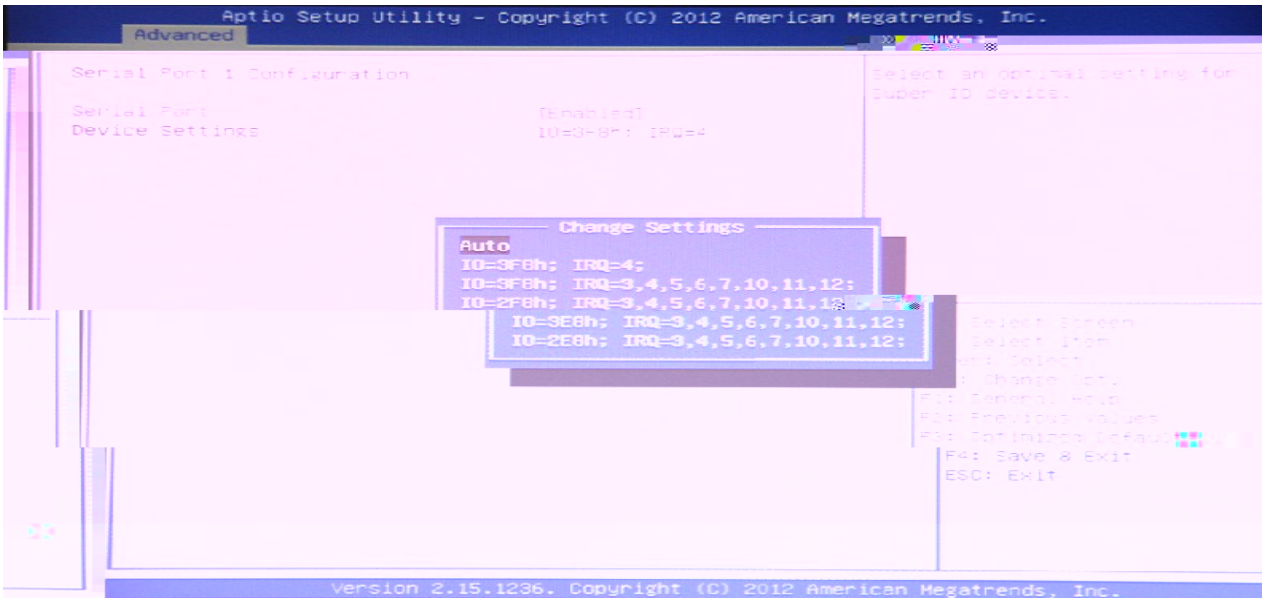
USB Auto, Manual,

Super IO Configuration IO



Serial Port1 Configuration 1

1



Serial Port [Enabled]

:[Enabled] , [Disabled]

Device Settings [IO=3F8h;IRQ=4]

Change Settings [Auto]

6 [Auto]

Serial Port2 Configuration 2

2

Serial Port [Enabled]

:[Enabled] , [Disabled]

Device Settings [IO=2F8h;IRQ=3]

Change Settings [Auto]

6 [Auto]

Serial Port3 Configuration 3

3

Serial Port [Enabled]

:[Enabled] , [Disabled]

Device Settings [IO=3E8h;IRQ=7]

Change Settings [Auto]

6 [Auto]

Serial Port4 Configuration 4

4

Serial Port [Enabled]

:[Enabled] , [Disabled]

Device Settings [IO=2E8h;IRQ=5]

Change Settings [Auto]

6 [Auto]

Serial Port5 Configuration 5

5

Serial Port [Enabled]

:[Enabled] , [Disabled]

Device Settings [IO=2E0h;IRQ=10]

Change Settings [Auto]

6 [Auto]

Serial Port6 Configuration 6

6

Serial Port [Enabled]

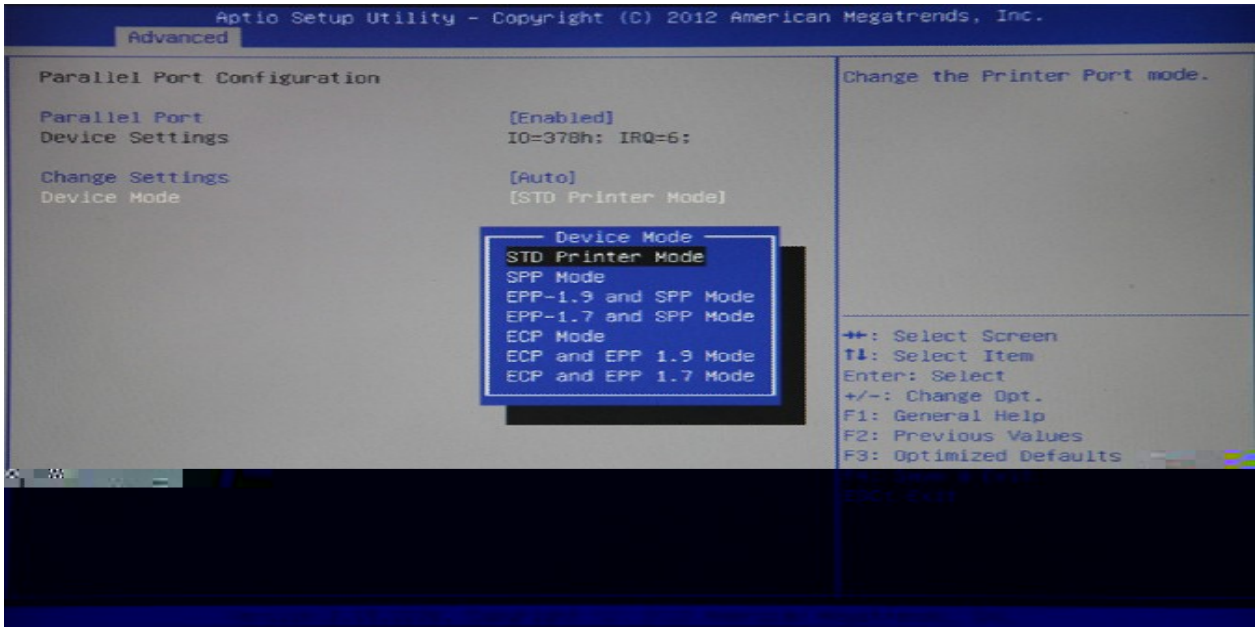
:[Enabled] , [Disabled]

Device Settings [IO=2F0h;IRQ=11]

Change Settings [Auto]

6 [Auto]

Parallel Port Configuration



Parallel Port [Enabled]

:[Enabled] , [Disabled]

Device Settings [IO=378h;IRQ=6]

Change Settings [Auto]

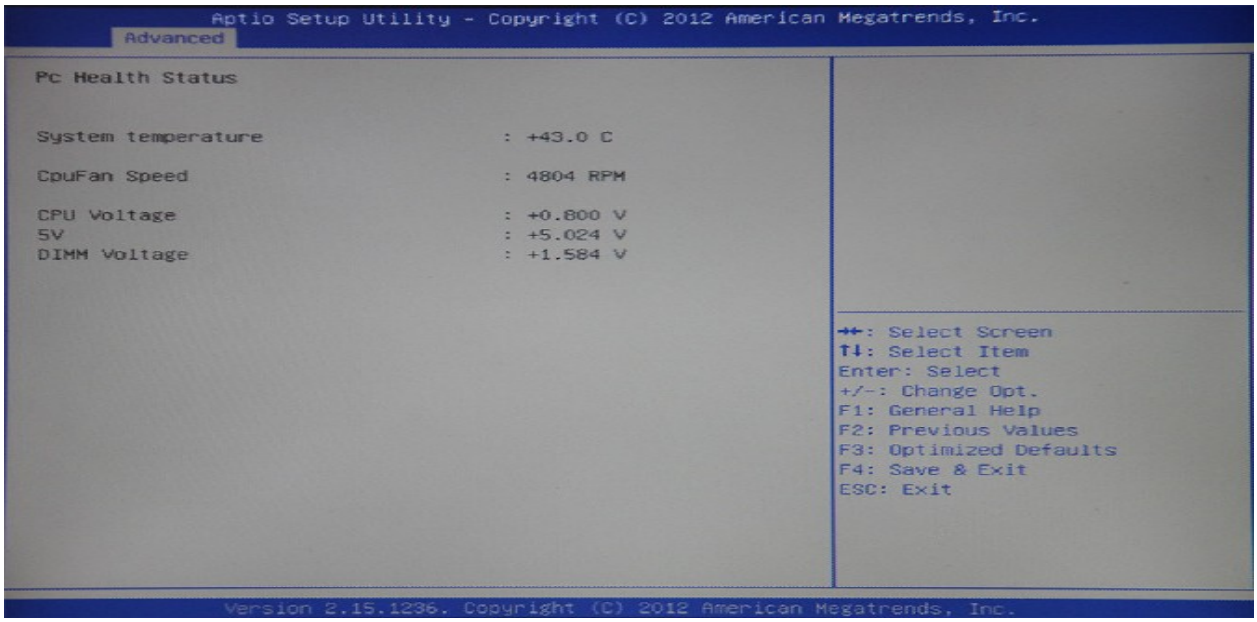
5 [Auto]

Device Mode [STD Printer Mode]

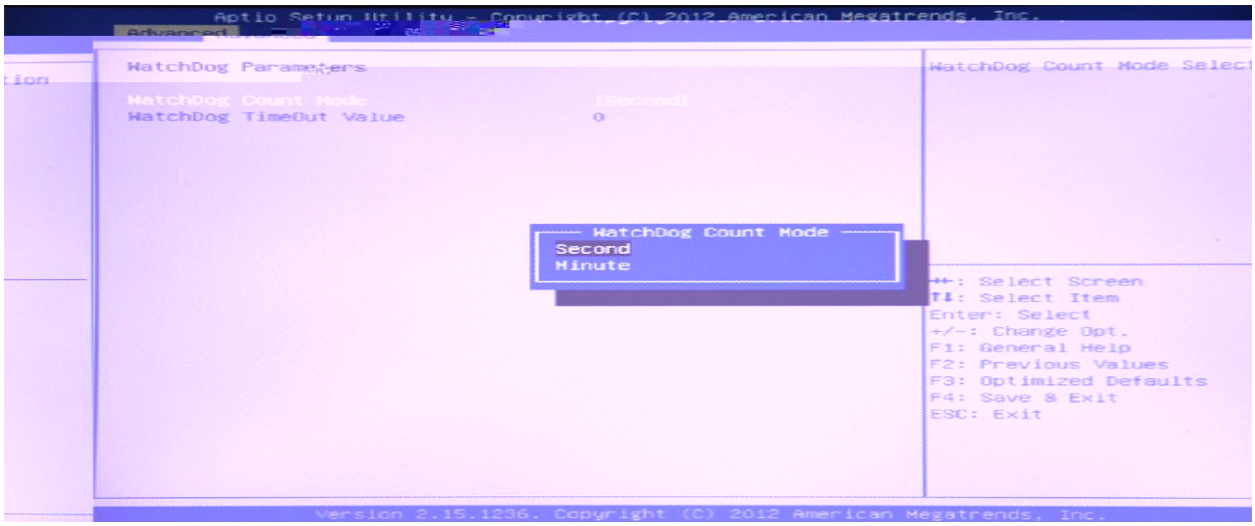
7

PC Health Status PC

PC CPU



WatchDog Configuration



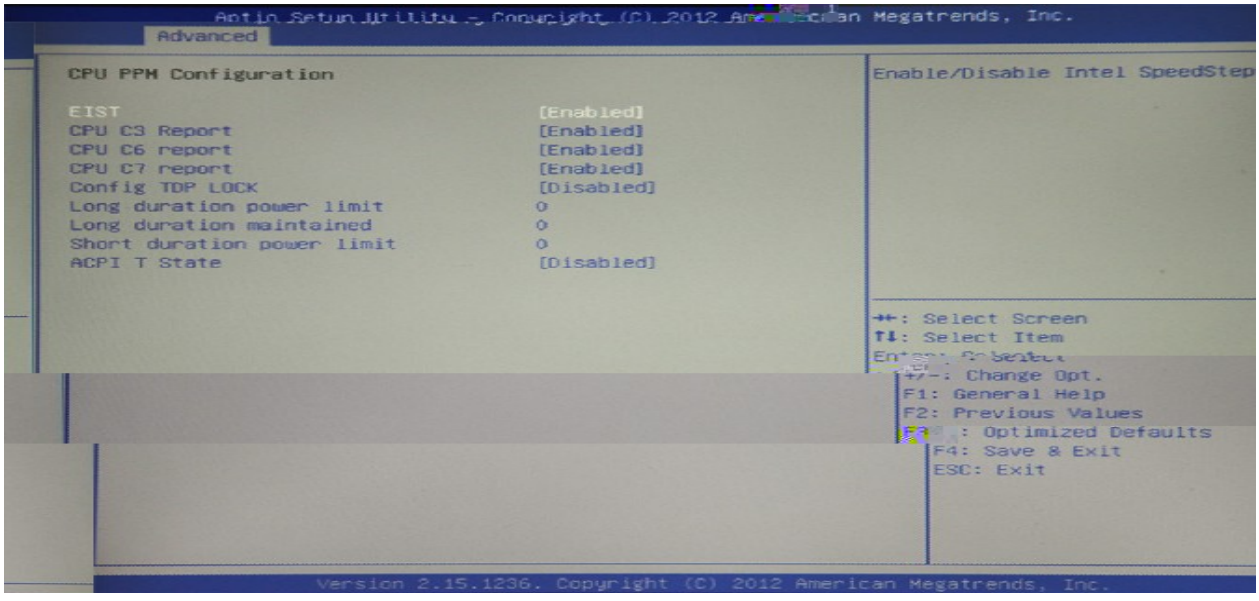
WatchDog Count Mode [Second]

:[Second] [Minute]

WatchDog Timeout Value [0]

CPU PPM Configuration CPU

CPU



EIST [Enabled]

CPU :[Enabled] , [Disabled]

CPU C3 Report [Enabled] CPU C6 Report [Enabled] CPU C7 Report [Enabled]

CPU C3,C6,C7

Config TDP LOCK [Disabled]

TDP

Long duration power limit [0]

TDP **TDP** **0-255W** **TDP**

Long Duration maintained [0]

TDP **TDP** **0-32000** **32**

Short Duration power limit [0]

TDP **TDP** **0-255W** **Turbo Boost**

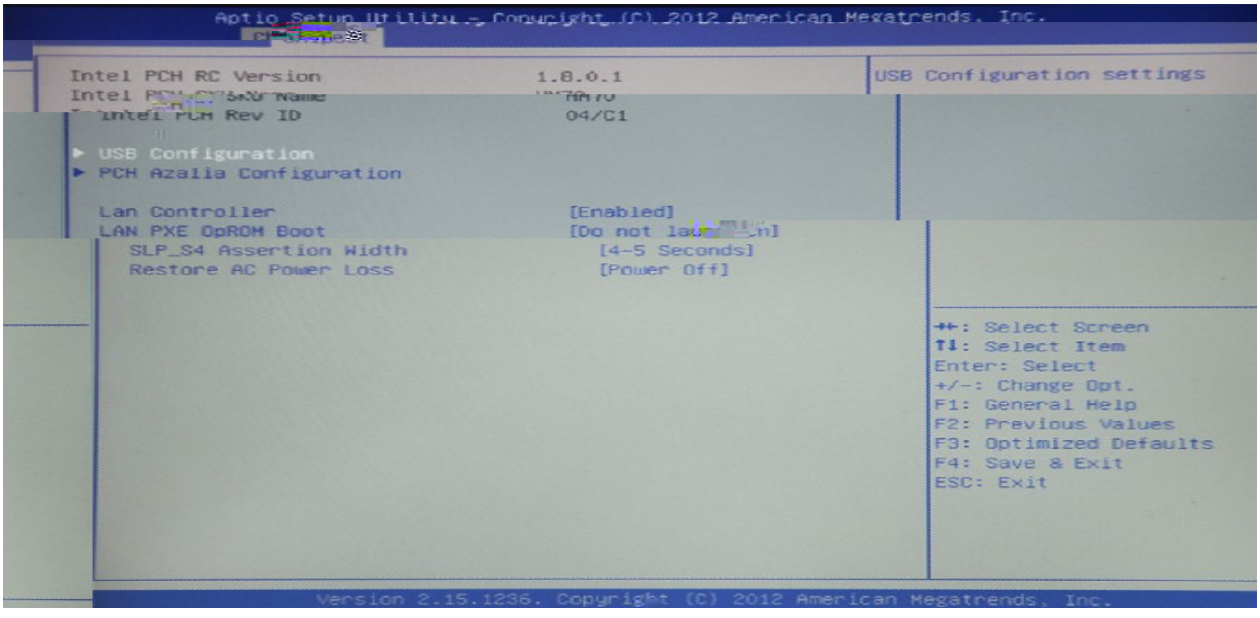
TDP

ACPI T State [Disabled]

ACPI

3.3 Chipset MENU

PCH-IO Configuration **PCH-IO**



USB Configuration (USB)

USB

PCH Azalia Configuration

Azalia [Auto]

Azalia HDMI codec Port [Enabled]

/ HDMI

Lan Controller [Enabled]

Lan PXE OpROM Boot [Do not launch]

[Do not launch] [UEFI only] [Legacy only]

Restore AC Power Loss [Power Off]

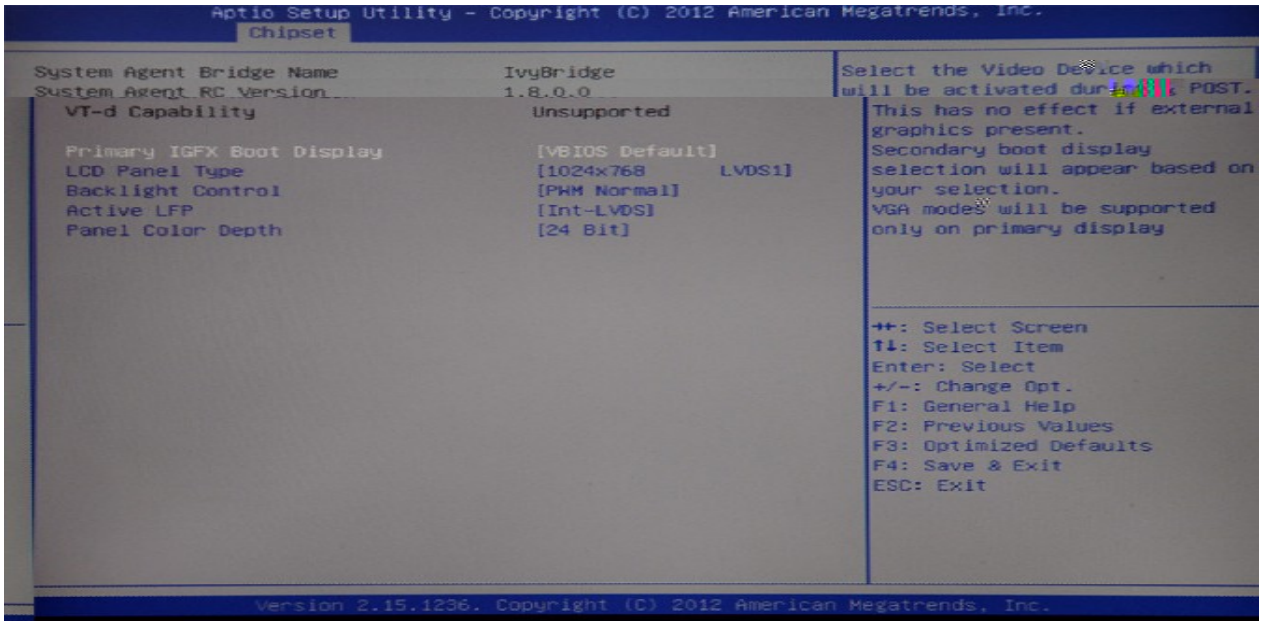
[Power Off] [Power On] [Last State]

[Power Off]

[Power On]

[Last State]

North Bridge Configuration



Primary IGFX Boot Display [VBIOS Default]

IGFX VBIOS

CRT,HDMI,LVDS

LCD Panel Type [1024 768 LVDS1]

LCD

Back light Control [PWM Normal]

LCD

Active LFP [Int-LVDS]

Panel Color Depth [24bit]

3.4 BOOT MENU

Setup Prompt Timeout [1]

Bootup NumLock State [On]

[On] [Off]

Full Screen Logo [Disabled]

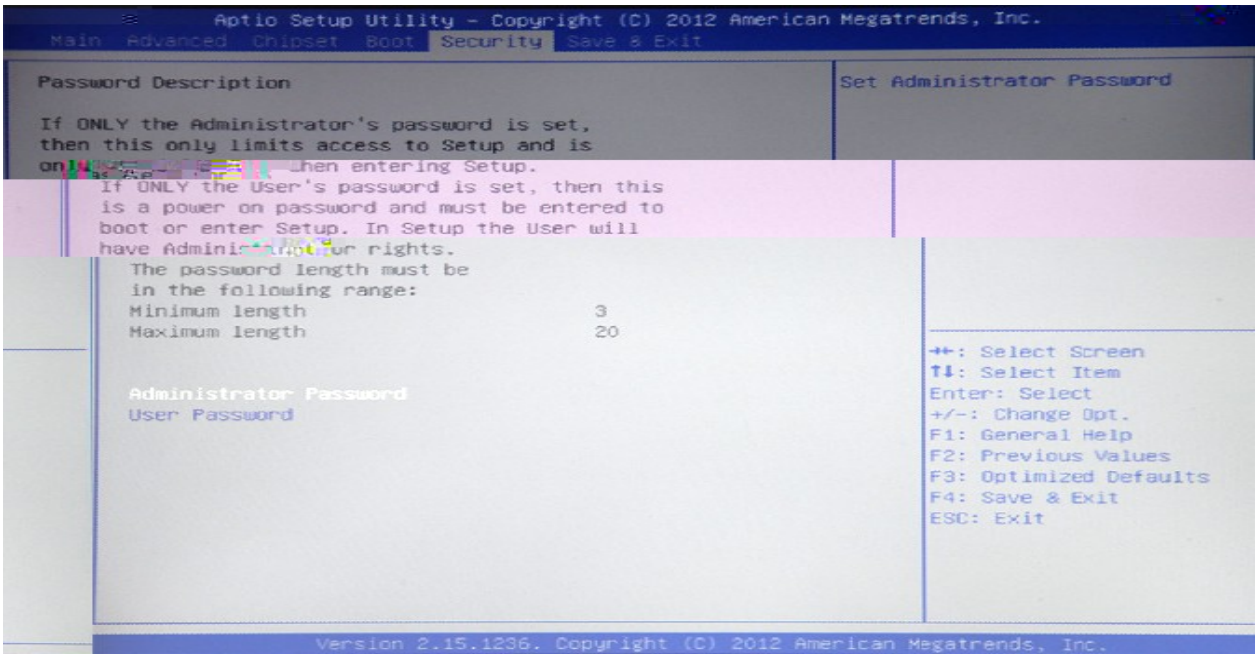
LOGO / [Enabled] [Disabled]

Fast Boot [Disabled]

[Enabled] [Disabled]

Boot Option Priorities

3.5 Security MENU



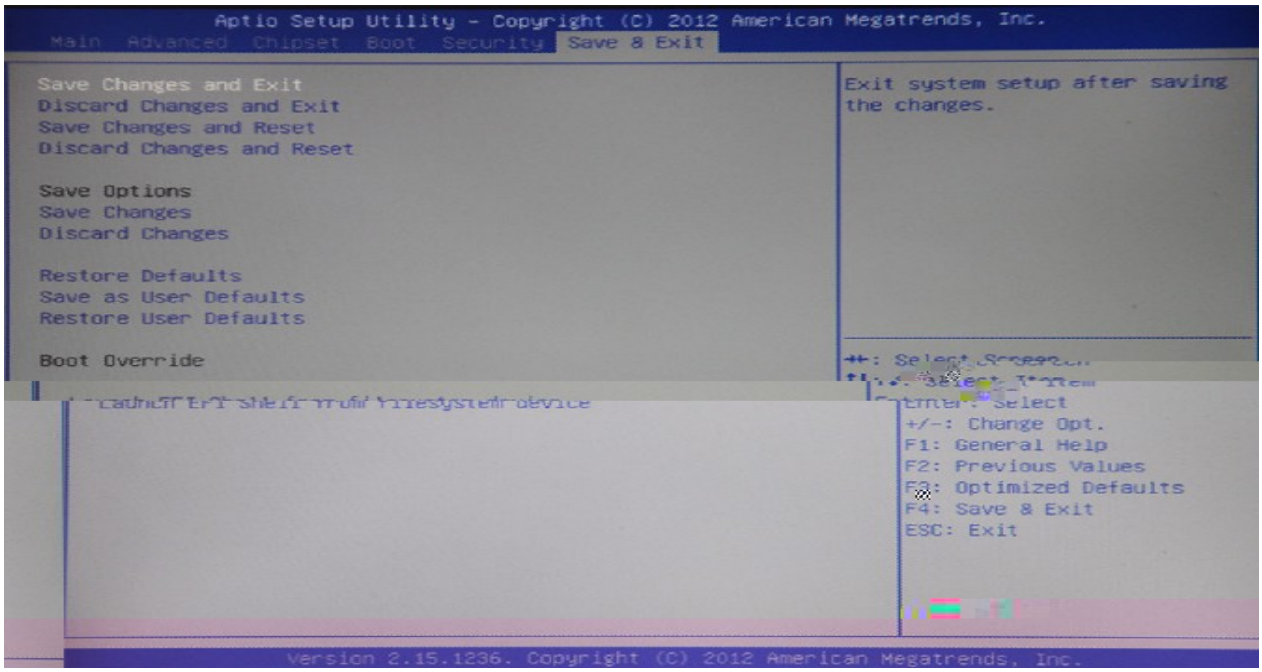
Administrator Password

BIOS **BIOS**

User Password

BIOS

3.6 Save&Exit MENU



Save Changes and Exit

Discard Changes and Exit

Save Changes and Reset

Discard Changes and Reset

Save Changes

Discard Changes

Restore Defaults

Save as User Defaults

Restore User Defaults

Launch EFI Shell From filesystem device
EFI

4 :

4.1

G-1037U Driver \ Chipset \ infinst_9.4.0.1026 \ , double-click “Setup”.
“ ” ”.

Intel XP/WIN7/WIN8

4. 2

XP G-1037U Driver \ VGA \ WIN XP \ 32bit/64bit \ , double-click “Setup”.
WIN7&WIN8 G-1037U Driver \ VGA \ WIN7&WIN8 \ 32bit/64bit \ , double-click “Setup”.
“ ” ”.

32bit 64bit 32 64

4. 3

XP G-1037U Driver \ A udio\ XP \ , double-click “Setup.exe”.
WIN7&WIN8 G-1037U Driver \ Audio \ WIN7&WIN8 \ , double-click “Setup.exe”.
“ ” ”.

4. 4

XP G-1037U Driver \ LAN \ XP_5820 \ , double-click “Setup.exe”.
WIN7 G-1037U Driver \ LAN \ Win7_7077 \ , double-click “Setup.exe”.
WIN8&WIN8.1 G-1037U Driver \ LAN \ Win8_8.1_8020 \ , double-click “Setup.exe”
“ ” ”.