

Vig800S – ASUS Q87-E Default BIOS settings

BIOS version: **9062 (9062.cap)** BIOS Date: **03/06/2015**

Viglen Default BIOS Settings for **Windows 8.1 operating system**

Setting	Viglen default BIOS settings
Advanced\Trusted Computing	
Security Device Support	Enabled
TPM State	Enabled
Advanced\PCH Configuration\ Intel(R) Smart Connect Technology	
ISCT Support :	Enabled
Advanced\ SATA Configuration	
SATA Mode Selection	AHCI
Aggressive LPM Support	Auto
S.M.A.R.T Status Check	Enabled
Advanced\System Agent Configuration	
VT-D	Enabled
CPU Audio Device	Enabled
DVI Port Audio	Enabled
Advanced\System Agent Configuration\Graphics Configuration	
Primary Display	Auto
IGPU Memory	Auto
Render Standby	Auto
IGPU Multi-Monitor	Enabled
Advanced\AMT configuration	
Intel AMT	Enabled
Advanced\Serial port Console Redirection	
Console Redirection	Enabled
Advanced\onboard Devices Configuration	
HD Audio Controller	Enabled
Front Panel Type	HD
Realtek LAN controller	Enabled
Realtek PCX Option ROM	Enabled
Advanced\APM	
Deep S4	Disabled
Restore AC Power Loss	Last State
Power on BY PCI-E/PCI	Enabled
Power on BY Ring	Enabled
Power On by RTC	Disabled
Advanced\ Network Stack configuration	
Network Stack	Enabled
Ipv4 PXE Support	Enabled
Ipv6 PXE Support	Enabled
Monitor	
CPU Q-FAN Control	Enabled
CPU Fan speed Low Limit	200 RPM
CPU Fan Profile	Standard
Chassis Q-FAN Control	Enabled
Chassis Fan Speed low limit	600 RPM
Chassis Fan Profile	Standard
Anti-Surge Support	Enabled
Boot\CSM (Compatibility Support Module)	
Launch CSM	Enabled
Boot Device Control	UEFI Only
Boot from Network Devices	UEFI drive first
Boot from Storage Devices	UEFI drive first
Boot from PCI-E/PCI Expansion Devices	UEFI drive first
Boot\Secure Boot Menu	
OS Type	Windows UEFI mode
Boot Menue	
Setup Mode	Advance Mode

Vig800S – ASUS Q87-E Default BIOS settings



ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | Advanced | Monitor | Boot | Tool | Exit

BIOS Information
 BIOS Version: 9062 x64
 Build Date: 03/06/2015
 ME Version: 9.0.31.1487
 South Bridge Stepping: 05/02

CPU Information
 Intel(R) Core(TM) i5-4570 CPU @ 3.20GHz
 Speed: 3200 MHz

Memory Information
 Total Memory: 4096 MB (DDR3)
 Memory Frequency: 1600 MHz

System Language: English

System Date: [Thursday 03/12/2015]
 System Time: [07:57:59]

Access Level: Administrator

Security

Choose the system default language

Quick Note | Last Modified

++: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save | ESC: Exit
 F12: Print Screen

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Target CPU Turbo-Mode Speed: 3600MHz
 Target DRAM Speed: 1600MHz
 Target Cache Speed: 3600MHz
 Target DMI/PEG Clock: 100MHz
 Target CPU Graphics Speed: 1150MHz

CPU Core Ratio: Auto

Min. CPU Cache Ratio: Auto
 Max. CPU Cache Ratio: Auto

BCLK Frequency : DRAM Frequency Ratio: Auto
 DRAM Frequency: Auto
 Max. CPU Graphics Ratio: Auto

GPU Boost: As Is
 EPU Power Saving Mode: Disabled

Quick Note | Last Modified

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 ↑↓: Select Item
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EPU Power Saving Mode: Disabled

DRAM Timing Control

DIGI+ VRM

CPU Power Management

Extreme Over-voltage: Disabled

CPU Core Voltage: 1.004V (Auto)

CPU Cache Voltage: (Auto)

CPU Graphics Voltage: (Auto)

CPU System Agent Voltage Offset Mode Sign: (+)

CPU System Agent Voltage Offset: (Auto)

CPU Analog I/O Voltage Offset Mode Sign: (+)

CPU Analog I/O Voltage Offset: (Auto)

CPU Digital I/O Voltage Offset Mode Sign: (+)

Quick Note | Last Modified

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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | Advanced | Monitor | Boot | Tool

CPU System Agent Voltage Offset Mode Sign: (+)

CPU System Agent Voltage Offset: (Auto)

CPU Analog I/O Voltage Offset Mode Sign: (+)

CPU Analog I/O Voltage Offset: (Auto)

CPU Digital I/O Voltage Offset Mode Sign: (+)

CPU Digital I/O Voltage Offset: (Auto)

SVID Control: (Auto)

CPU Input Voltage(VCCIN): (Auto)

DRAM Voltage: 1.500V (Auto)

PCH Core Voltage: 1.050V (Auto)

DRAM CTRL REF Voltage: (Auto)

DRAM DATA REF Voltage on CHA: (Auto)

DRAM DATA REF Voltage on CHB: (Auto)

CPU Spread Spectrum: (Auto)

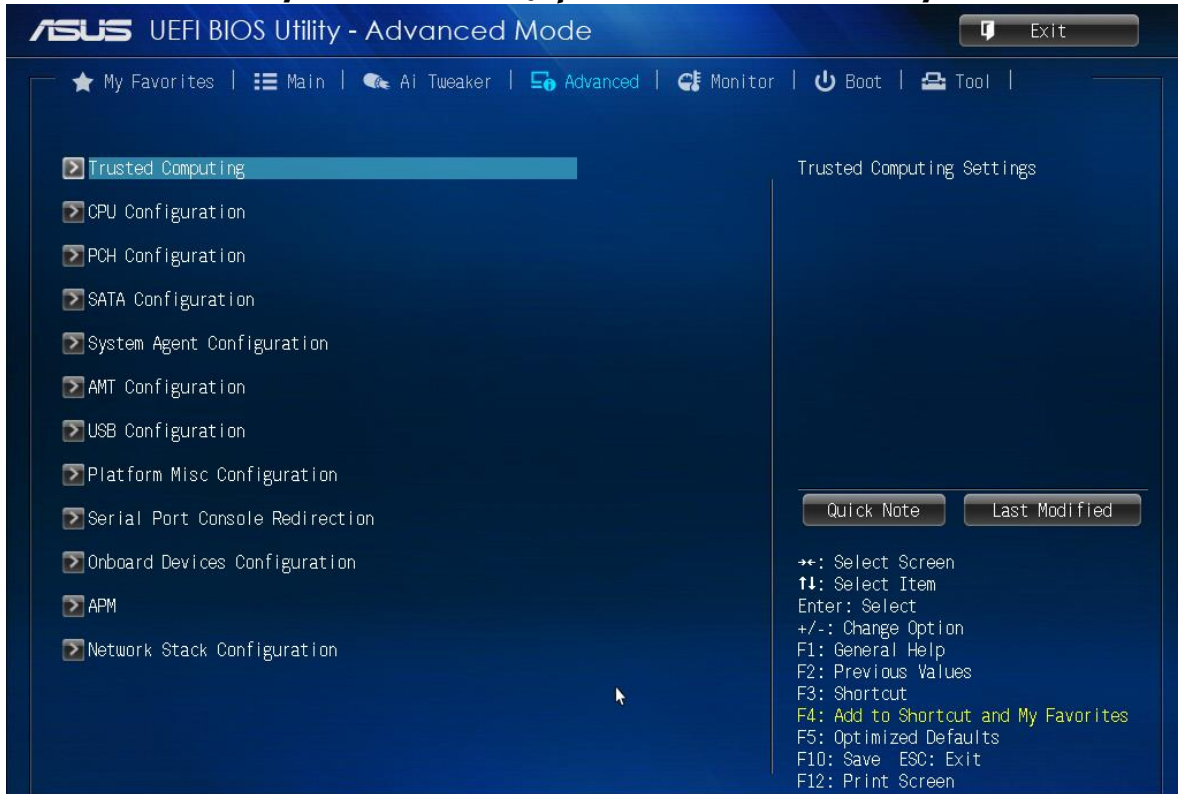
Quick Note | Last Modified

Disable: CPU Spread Spectrum is disabled.

++: Select Screen
 ##: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
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Vig800S – ASUS Q87-E Default BIOS settings



ASUS UEFI BIOS Utility - Advanced Mode [Exit]

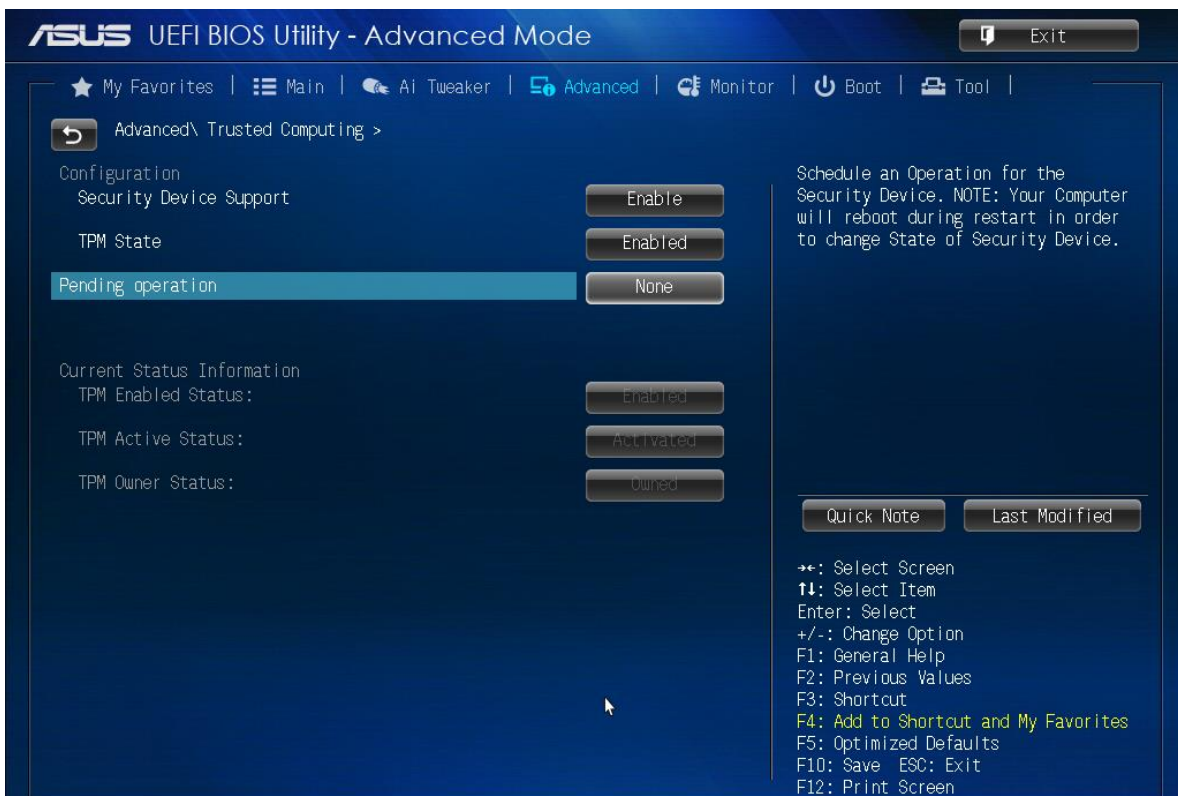
My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

- Trusted Computing
- CPU Configuration
- PCH Configuration
- SATA Configuration
- System Agent Configuration
- AMT Configuration
- USB Configuration
- Platform Misc Configuration
- Serial Port Console Redirection
- Onboard Devices Configuration
- APM
- Network Stack Configuration

Trusted Computing Settings

Quick Note | Last Modified

⇐: Select Screen
 ⇕: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save ESC: Exit
 F12: Print Screen



ASUS UEFI BIOS Utility - Advanced Mode [Exit]

My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced \ Trusted Computing >

Configuration

- Security Device Support:
- TPM State:
- Pending operation:

Current Status Information

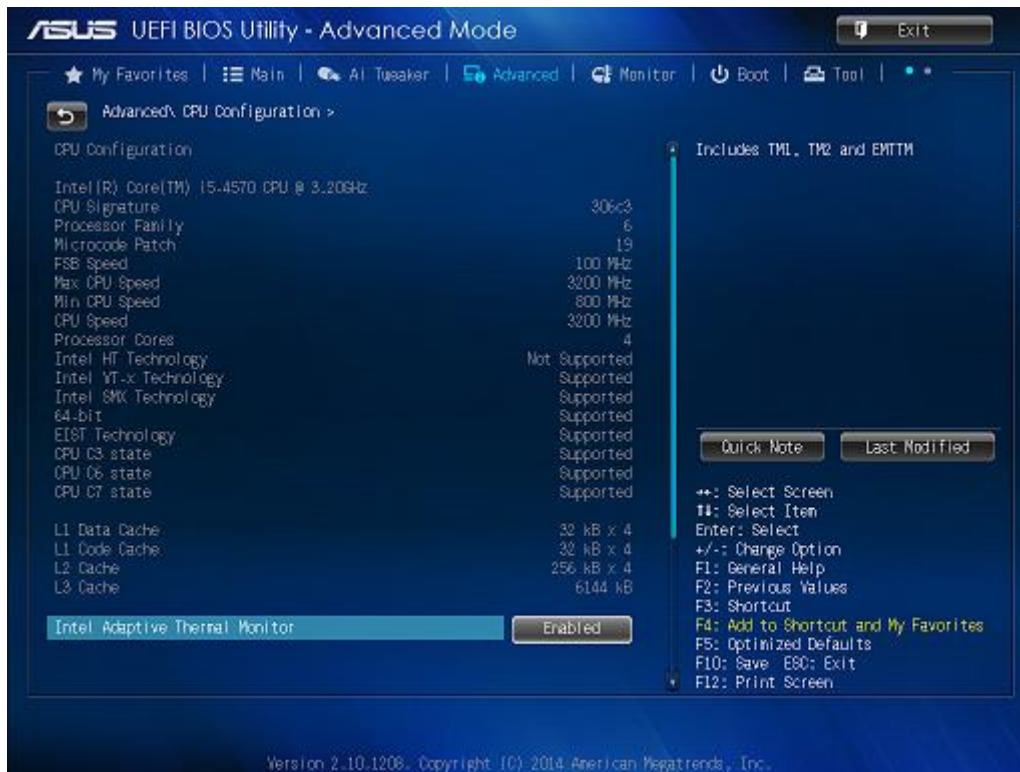
- TPM Enabled Status:
- TPM Active Status:
- TPM Owner Status:

Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.

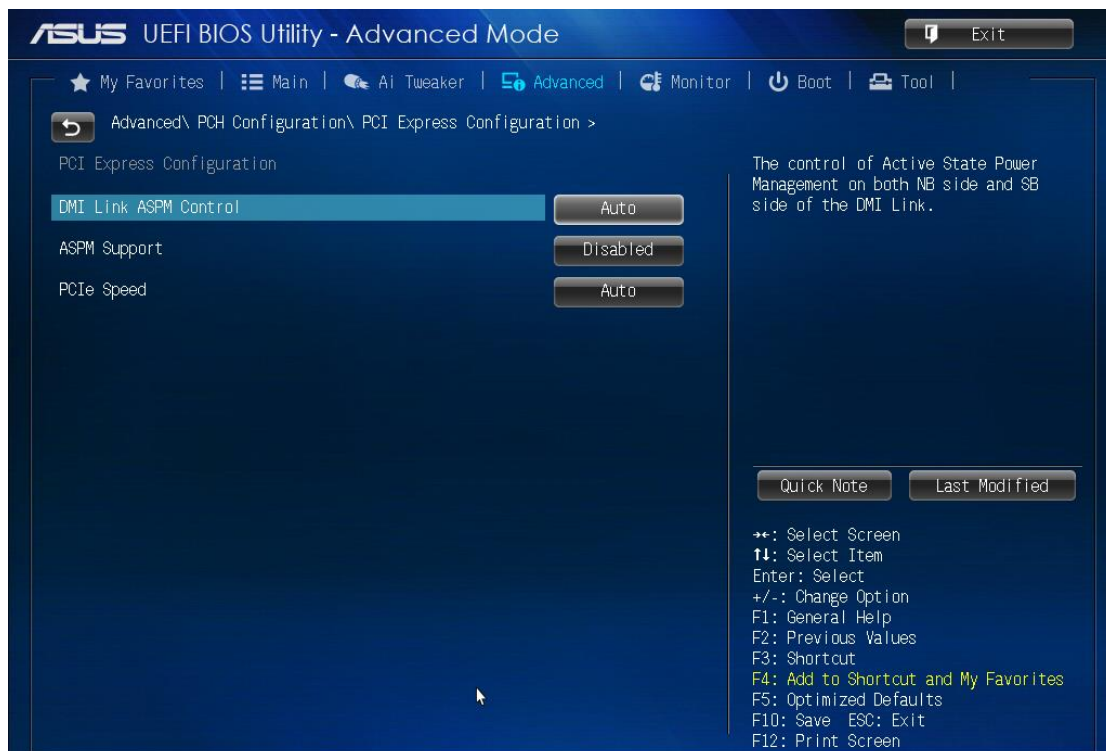
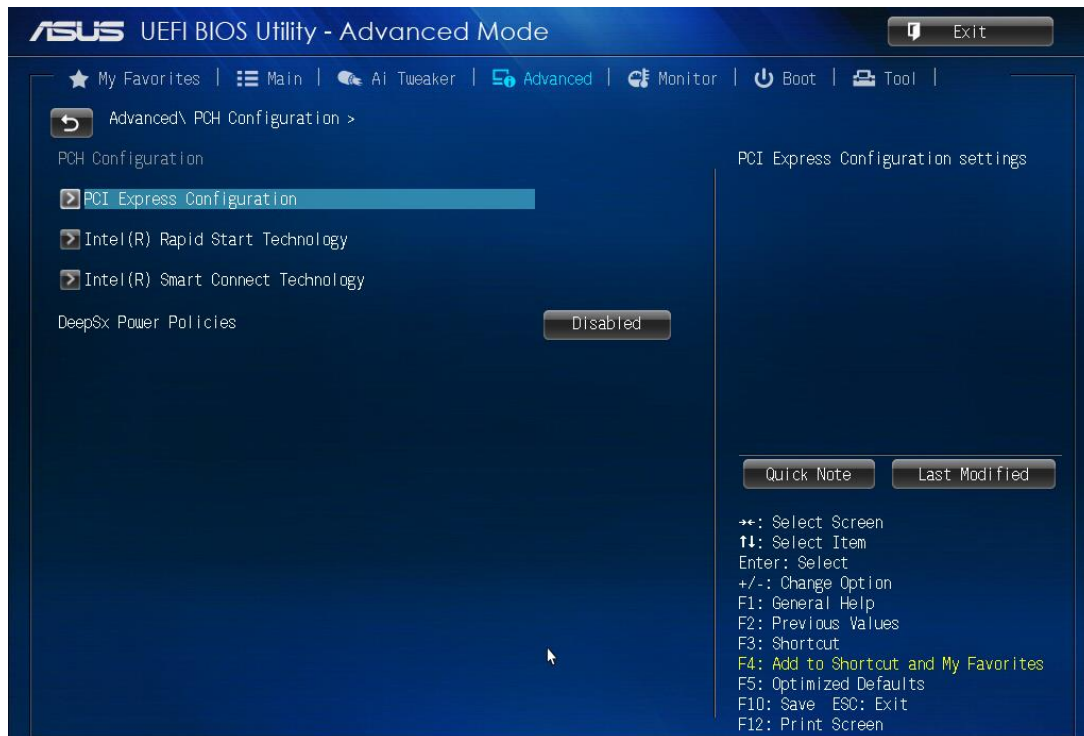
Quick Note | Last Modified

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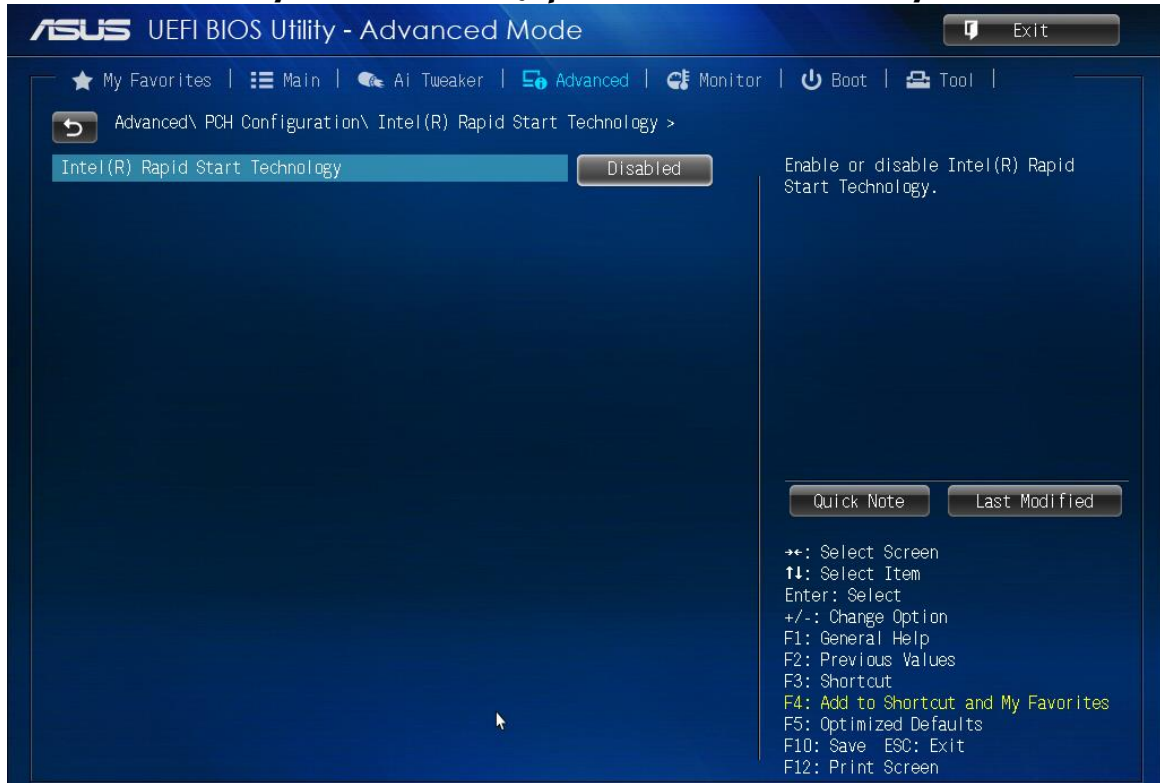
Vig800S – ASUS Q87-E Default BIOS settings



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Vig800S – ASUS Q87-E Default BIOS settings



ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced \ PCH Configuration \ Intel(R) Rapid Start Technology >

Intel(R) Rapid Start Technology **Disabled**

Enable or disable Intel(R) Rapid Start Technology.

Quick Note Last Modified

←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Option
F1: General Help
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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced \ PCH Configuration \ Intel(R) Smart Connect Technology >

ISCT Support **Enabled**

Enable/Disable ISCT Support

Quick Note Last Modified

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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced > SATA Configuration >

SATA Configuration

SATA Mode Selection: AHCI

Aggressive LPM Support: Auto

S.M.A.R.T. Status Check: Enabled

SATA6G_1 (Yellow) MDC MD5000AAKX-00ERW40 (500.16B)
 SATA6G_1 (Yellow)

Hot Plug: Disabled

SATA6G_2 (Yellow) TSSTcorp CDDVDN SH-S223F ATAPI
 SATA6G_2 (Yellow)

Hot Plug: Disabled

SATA6G_3 (Yellow) Empty
 SATA6G_3 (Yellow)

Hot Plug: Disabled

SATA6G_4 (Yellow) Empty
 SATA6G_4 (Yellow)

Determines how SATA controller(s) operate.

Quick Note Last Modified

++: Select Screen
 ==: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save E80: Exit
 F12: Print Screen

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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced > System Agent Configuration >

System Agent Bridge Name: Haswell

VT-d: Enabled

CPU Audio Device: Enabled

DVI Port Audio: Enabled

Graphics Configuration

DMI Configuration

NB PCIe Configuration

Memory Configuration

Check to enable VT-d function on MCH.

Quick Note Last Modified

++: Select Screen
 ==: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
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 F5: Optimized Defaults
 F10: Save E80: Exit
 F12: Print Screen

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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced \ System Agent Configuration \ Graphics Configuration >

Graphics Configuration
 iGPU VBIOS Version 2170
 iGPU Frequency 700 MHz

Primary Display Auto

iGPU Memory Auto

Render Standby Auto

iGPU Multi-Monitor Enabled

Allows you to select the iGPU/PCIe/PCI Graphics device for Primary Display.

Quick Note Last Modified

++: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save E80: Exit
 F12: Print Screen

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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced \ System Agent Configuration \ DMI Configuration >

DMI Configuration

DMI Gen 2 Auto

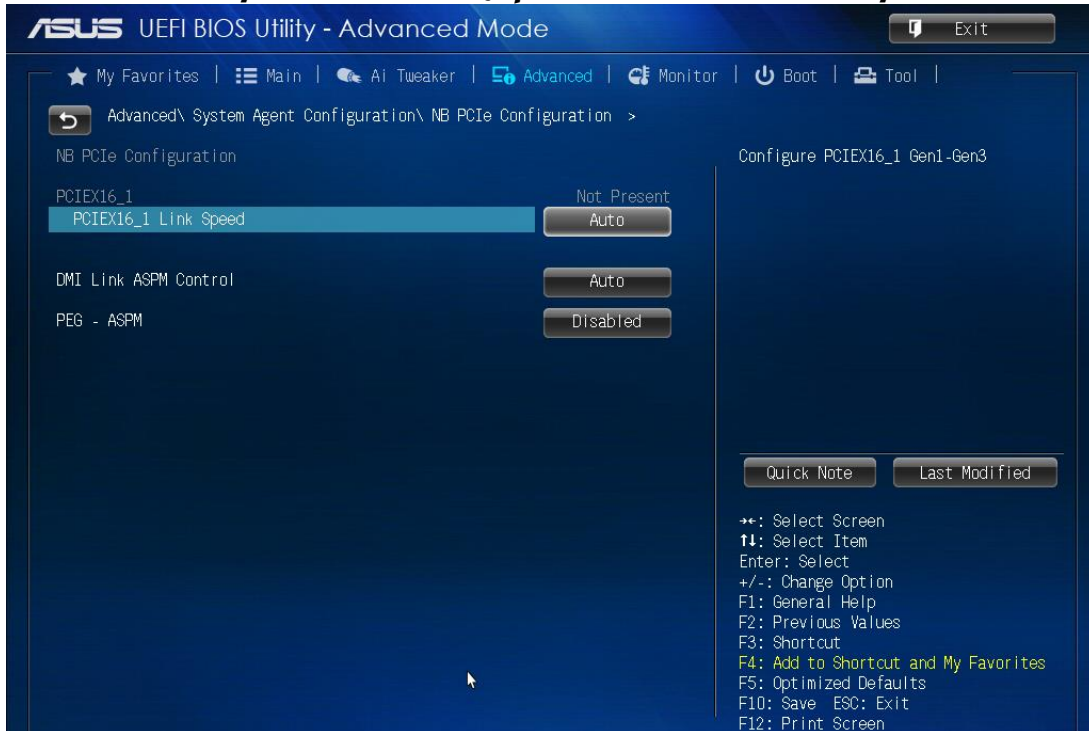
Enable or disable DMI Gen 2. Auto means Enabled.

Quick Note Last Modified

++: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | Ai Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced \ System Agent Configuration \ NB PCIe Configuration >

NB PCIe Configuration

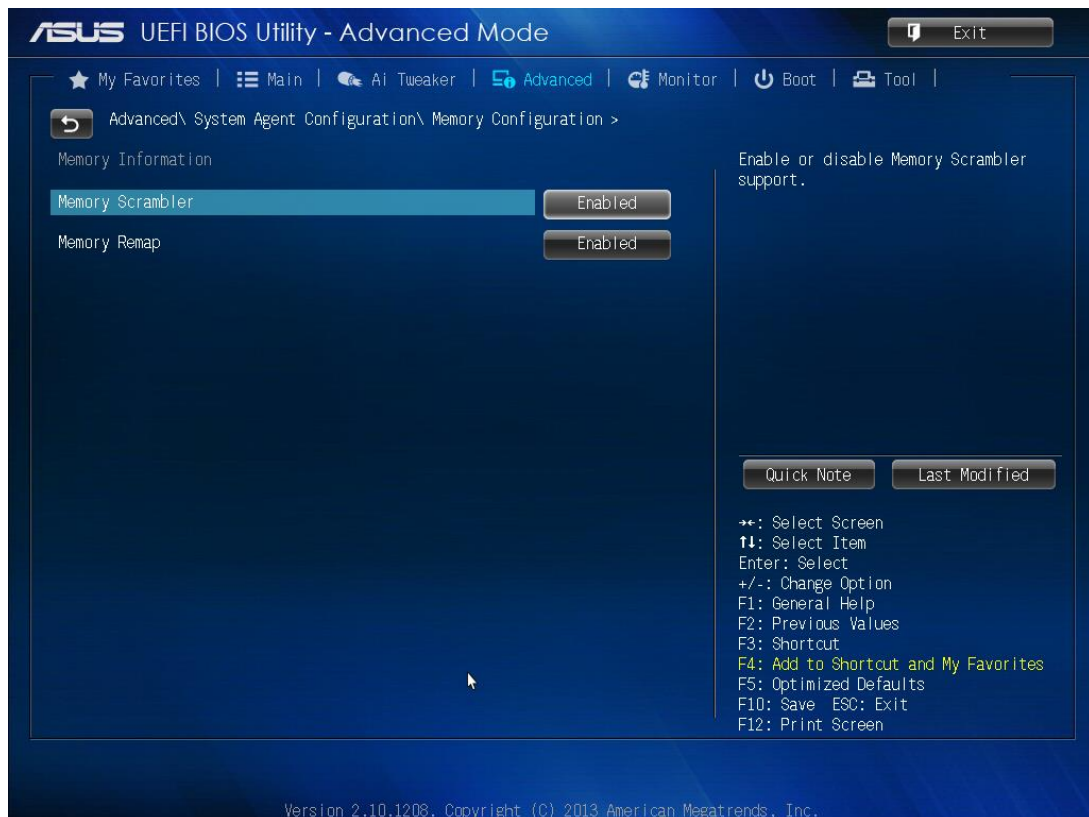
PCIEX16_1 Not Present
 PCIEX16_1 Link Speed

DMI Link ASPM Control

PEG - ASPM

Configure PCIEX16_1 Gen1-Gen3

←: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save ESC: Exit
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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | Ai Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced \ System Agent Configuration \ Memory Configuration >

Memory Information

Memory Scrambler

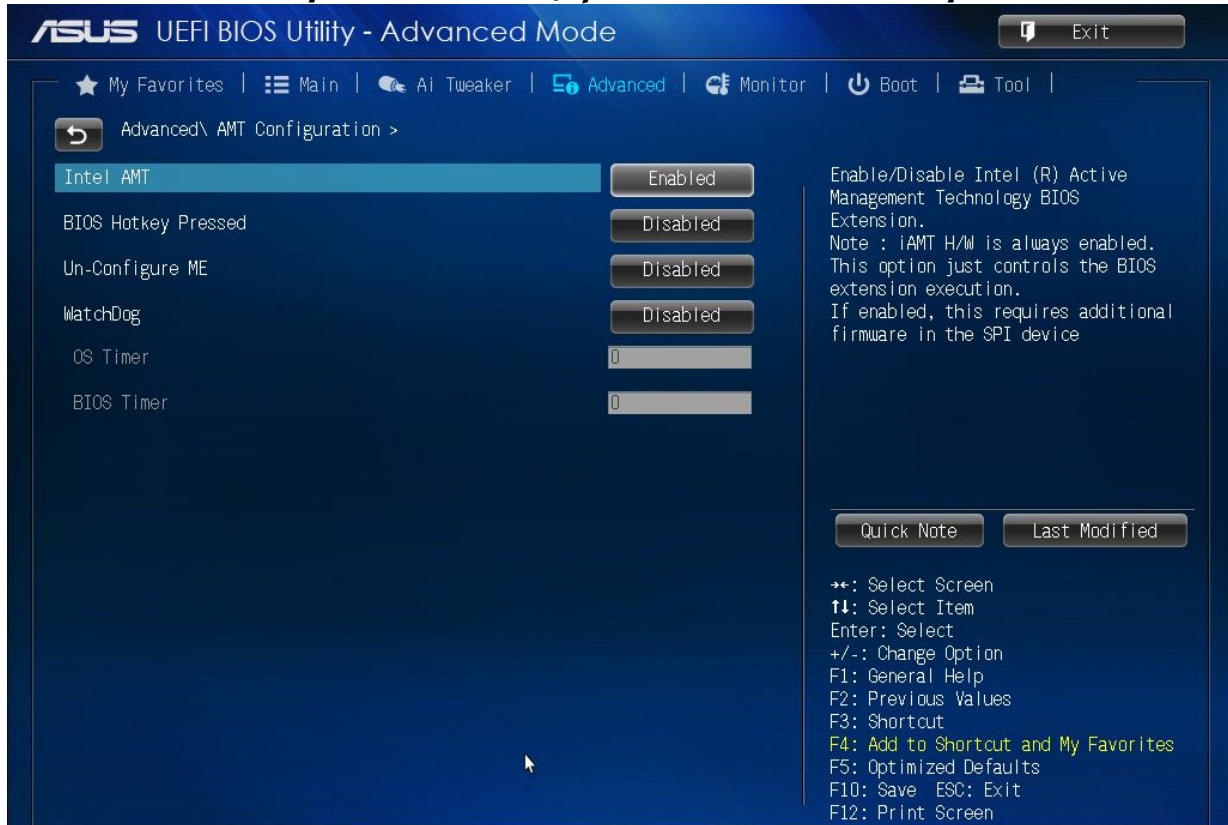
Memory Remap

Enable or disable Memory Scrambler support.

←: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save ESC: Exit
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Vig800S – ASUS Q87-E Default BIOS settings



ASUS UEFI BIOS Utility - Advanced Mode [Exit]

★ My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

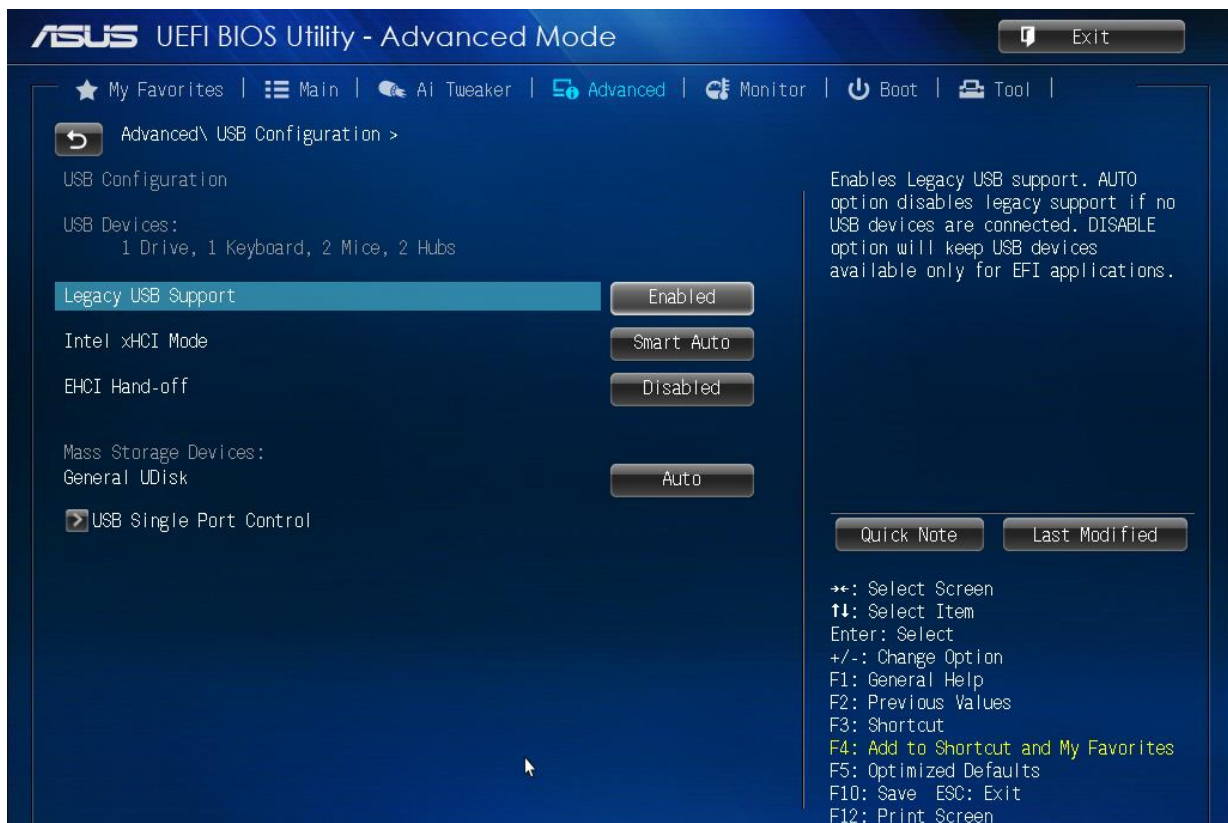
Advanced\ AMT Configuration >

Intel AMT	Enabled
BIOS Hotkey Pressed	Disabled
Un-Configure ME	Disabled
WatchDog	Disabled
OS Timer	0
BIOS Timer	0

Enable/Disable Intel (R) Active Management Technology BIOS Extension.
 Note : iAMT H/W is always enabled. This option just controls the BIOS extension execution.
 If enabled, this requires additional firmware in the SPI device

Quick Note Last Modified

⇐⇐: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
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 F10: Save ESC: Exit
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ASUS UEFI BIOS Utility - Advanced Mode [Exit]

★ My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced\ USB Configuration >

USB Configuration

USB Devices:
 1 Drive, 1 Keyboard, 2 Mice, 2 Hubs

Legacy USB Support	Enabled
Intel xHCI Mode	Smart Auto
EHCI Hand-off	Disabled
Mass Storage Devices: General UDisk	Auto

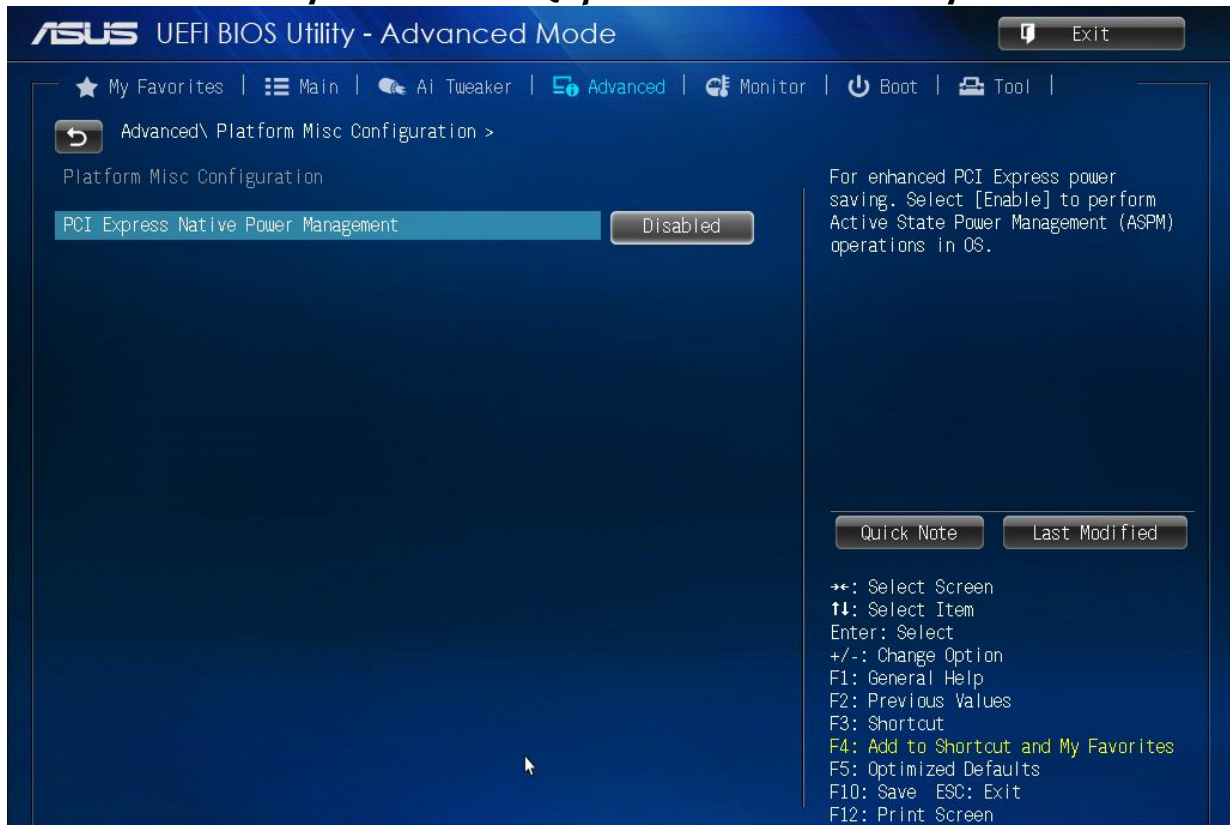
USB Single Port Control

Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.

Quick Note Last Modified

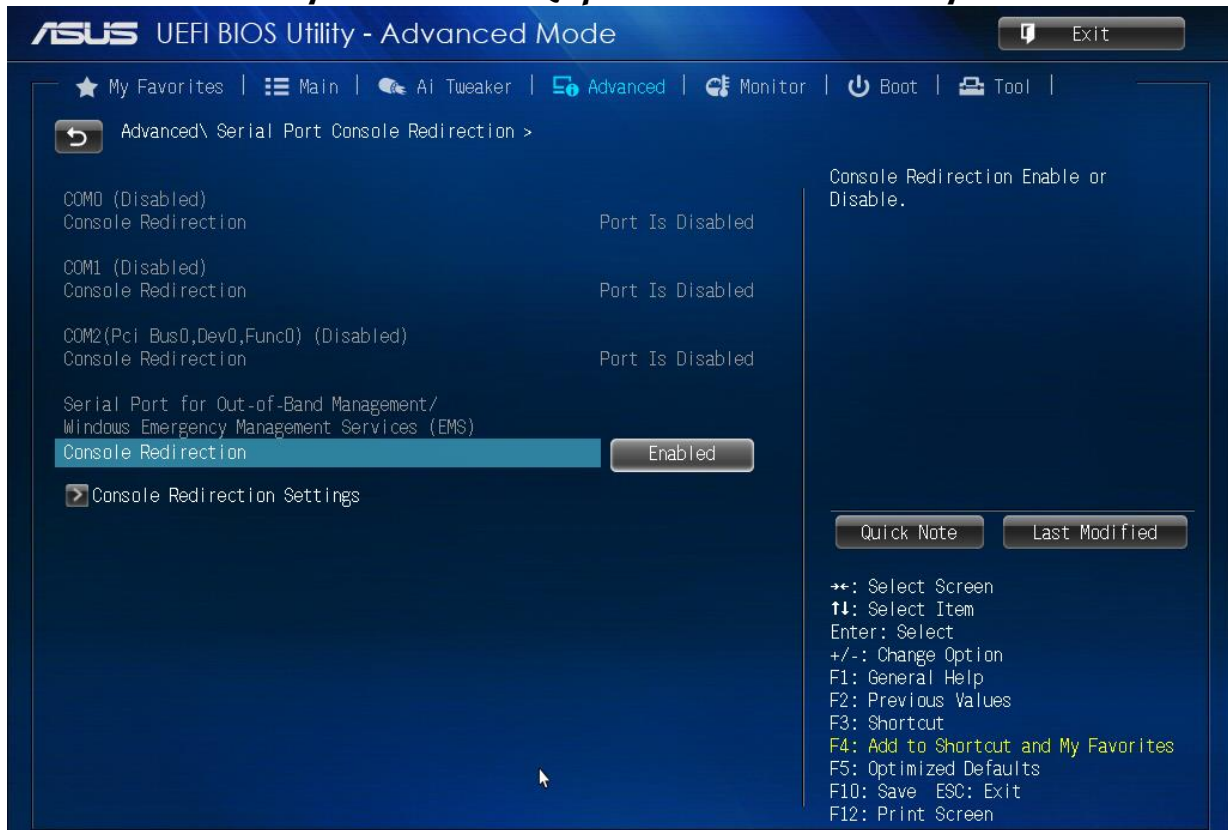
⇐⇐: Select Screen
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 F5: Optimized Defaults
 F10: Save ESC: Exit
 F12: Print Screen

Vig800S – ASUS Q87-E Default BIOS settings



The screenshot displays the ASUS UEFI BIOS Utility in Advanced Mode. The main menu includes: My Favorites, Main, AI Tweaker, Advanced, Monitor, Boot, and Tool. The current path is Advanced \ Platform Misc Configuration >. Under Platform Misc Configuration, the setting for PCI Express Native Power Management is shown as Disabled. A detailed note on the right explains that this setting is for enhanced PCI Express power saving and that selecting [Enable] would perform Active State Power Management (ASPM) operations in OS. Below the note are buttons for Quick Note and Last Modified. A keyboard legend at the bottom right lists navigation and function keys: ++ for Select Screen, ↑↓ for Select Item, Enter for Select, +/- for Change Option, F1 for General Help, F2 for Previous Values, F3 for Shortcut, F4 for Add to Shortcut and My Favorites, F5 for Optimized Defaults, F10 for Save, ESC for Exit, and F12 for Print Screen.

Vig800S – ASUS Q87-E Default BIOS settings



The screenshot displays the ASUS UEFI BIOS Utility in Advanced Mode. The main menu includes: My Favorites, Main, AI Tweaker, Advanced, Monitor, Boot, and Tool. The current screen is 'Advanced\ Serial Port Console Redirection >'. It shows settings for COM0, COM1, and COM2, all of which are disabled. The 'Serial Port for Out-of-Band Management/ Windows Emergency Management Services (EMS) Console Redirection' is set to 'Enabled'. A 'Console Redirection Settings' option is also visible. On the right, there is a note: 'Console Redirection Enable or Disable.' Below this are buttons for 'Quick Note' and 'Last Modified'. A keyboard legend is provided at the bottom right:

- ⇐: Select Screen
- ↑↓: Select Item
- Enter: Select
- +/-: Change Option
- F1: General Help
- F2: Previous Values
- F3: Shortcut
- F4: Add to Shortcut and My Favorites
- F5: Optimized Defaults
- F10: Save ESC: Exit
- F12: Print Screen

Vig800S – ASUS Q87-E Default BIOS settings



The screenshot displays the ASUS UEFI BIOS Utility in Advanced Mode, specifically the Onboard Devices Configuration screen. The interface is dark blue with white and yellow text. The top navigation bar includes options like My Favorites, Main, AI Tweaker, Advanced (selected), Monitor, Boot, and Tool. The main content area lists various onboard devices with their current status and a button to toggle them. The 'HD Audio Controller' is currently 'Enabled'. Other devices include Front Panel Type (HD), Intel LAN Controller (Enabled), Intel PXE OPROM (Enabled), and Charging USB devices in Power State S5 (Disabled). Serial and Parallel port configurations are also listed. A 'Quick Note' and 'Last Modified' button are present. A legend at the bottom right explains navigation keys: ++ for Select Screen, ## for Select Item, Enter for Select, +/- for Change Option, F1 for General Help, F2 for Previous Values, F3 for Shortcut, F4 for Add to Shortcut and My Favorites, F5 for Optimized Defaults, F10 for Save ESC for Exit, and F12 for Print Screen. The footer indicates the version is 2.10.1206 and is copyrighted by American Megatrends, Inc. in 2014.

Device	Status
HD Audio Controller	Enabled
Front Panel Type	HD
Intel LAN Controller	Enabled
Intel PXE OPROM	Enabled
Charging USB devices in Power State S5	Disabled
Serial Port Configuration	
Serial Port 1 Configuration	
Parallel Port Configuration	

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Vig800S – ASUS Q87-E Default BIOS settings



The screenshot displays the ASUS UEFI BIOS Utility in Advanced Mode. The main menu includes: My Favorites, Main, AI Tweaker, Advanced, Monitor, Boot, and Tool. The current path is: Advanced \ Onboard Devices Configuration \ Serial Port Configuration >. The 'Serial Port' setting is set to 'Enabled'. The 'Change Settings' option is set to 'I0=3F8h; IRQ=4'. A 'Quick Note' and 'Last Modified' section is visible at the bottom right, listing navigation shortcuts: ++: Select Screen, ↑: Select Item, Enter: Select, +/-: Change Option, F1: General Help, F2: Previous Values, F3: Shortcut, F4: Add to Shortcut and My Favorites, F5: Optimized Defaults, F10: Save ESC: Exit, and F12: Print Screen.

Vig800S – ASUS Q87-E Default BIOS settings



The screenshot displays the ASUS UEFI BIOS Utility in Advanced Mode. The main menu includes: My Favorites, Main, AI Tweaker, Advanced, Monitor, Boot, and Tool. The current path is: Advanced \ Onboard Devices Configuration \ Serial Port 1 Configuration >. The 'Serial Port 1 Configuration' section shows 'Serial Port' set to 'Enabled' and 'Change Settings' set to 'IO=2F8h; IRQ=3'. A 'Quick Note' and 'Last Modified' section is visible at the bottom right, listing navigation shortcuts: ++: Select Screen, ↑: Select Item, Enter: Select, +/-: Change Option, F1: General Help, F2: Previous Values, F3: Shortcut, F4: Add to Shortcut and My Favorites, F5: Optimized Defaults, F10: Save ESC: Exit, and F12: Print Screen.

Vig800S – ASUS Q87-E Default BIOS settings



ASUS UEFI BIOS Utility - Advanced Mode [Exit]

★ My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced\ Onboard Devices Configuration\ Parallel Port Configuration >

Parallel Port Configuration

Parallel Port	Enabled
Change Settings	Auto
Device Mode	STD Printe...

Enable or Disable Parallel Port (LPT/LPTE)

Quick Note Last Modified

⇐⇐: Select Screen
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ASUS UEFI BIOS Utility - Advanced Mode [Exit]

★ My Favorites | Main | AI Tweaker | **Advanced** | Monitor | Boot | Tool

Advanced\ APM >

Restore AC Power Loss	Power On
Power On By PCI-E/PCI	Enabled
Power On By Ring	Enabled
Power On By RTC	Disabled

Select AC power state when power is re-applied after a power failure.

Quick Note Last Modified

⇐⇐: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
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Vig800S – ASUS Q87-E Default BIOS settings



Vig800S – ASUS Q87-E Default BIOS settings



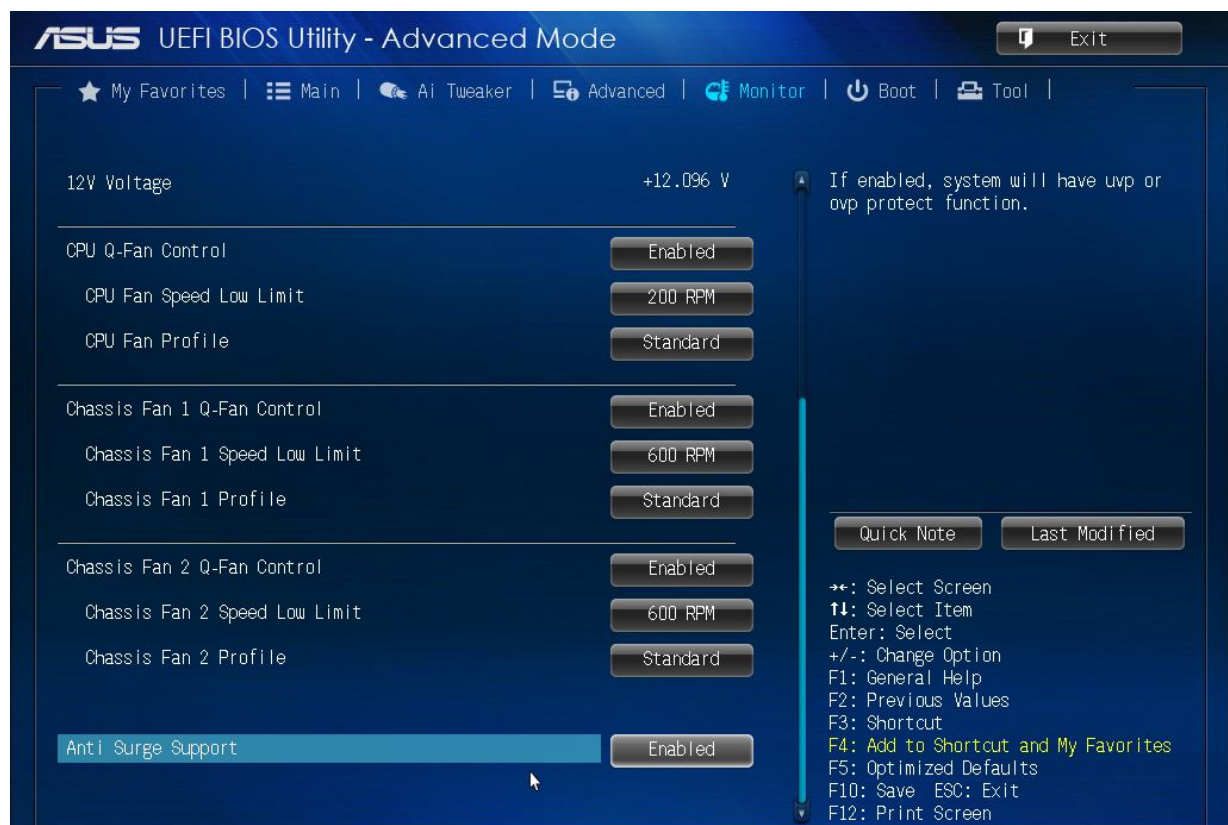
ASUS UEFI BIOS Utility - Advanced Mode [Exit]

★ My Favorites | Main | AI Tweaker | Advanced | Monitor | Boot | Tool

CPU Temperature	+40°C / +104°F	CPU Temperature
CPU Fan Speed	1462 RPM	
Chassis Fan 1 Speed	N/A	
Chassis Fan 2 Speed	4205 RPM	
CPU Input Voltage(VCCIN)	+1.792 V	
CPU Core Voltage	+0.968 V	
3.3V Voltage	+3.408 V	
5V Voltage	+5.040 V	
12V Voltage	+12.096 V	

Quick Note | Last Modified

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ASUS UEFI BIOS Utility - Advanced Mode [Exit]

★ My Favorites | Main | AI Tweaker | Advanced | Monitor | Boot | Tool

12V Voltage	+12.096 V	If enabled, system will have uvp or ovp protect function.
CPU Q-Fan Control	Enabled	
CPU Fan Speed Low Limit	200 RPM	
CPU Fan Profile	Standard	
Chassis Fan 1 Q-Fan Control	Enabled	
Chassis Fan 1 Speed Low Limit	600 RPM	
Chassis Fan 1 Profile	Standard	
Chassis Fan 2 Q-Fan Control	Enabled	
Chassis Fan 2 Speed Low Limit	600 RPM	
Chassis Fan 2 Profile	Standard	
Anti Surge Support	Enabled	

Quick Note | Last Modified

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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | Advanced | Monitor | Boot | Tool | Exit

Setup Prompt Timeout: 2

Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Quick Note | Last Modified

++: Select Screen
 ↑↓: Select Item
 Enter: Select
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 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save E80: Exit
 F12: Print Screen

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ASUS UEFI BIOS Utility - Advanced Mode

My Favorites | Main | AI Tweaker | Advanced | Monitor | Boot | Tool | Exit

Interrupt 19 Capture: Disabled

Setup Mode: Advanced Mode

CSM (Compatibility Support Module)

Secure Boot

Boot Option Priorities

Boot Option #1: Windows Bo...

Boot Option #2: UEFI: IPV4...

Boot Option #3: UEFI: IPV6...

Boot Option #4: UEFI: priy ...

Quick Note | Last Modified

++: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Option
 F1: General Help
 F2: Previous Values
 F3: Shortcut
 F4: Add to Shortcut and My Favorites
 F5: Optimized Defaults
 F10: Save E80: Exit
 F12: Print Screen

Boot Override

UEFI: IPV4 Intel(R) Ethernet Connection I217-LM

UEFI: IPV6 Intel(R) Ethernet Connection I217-LM

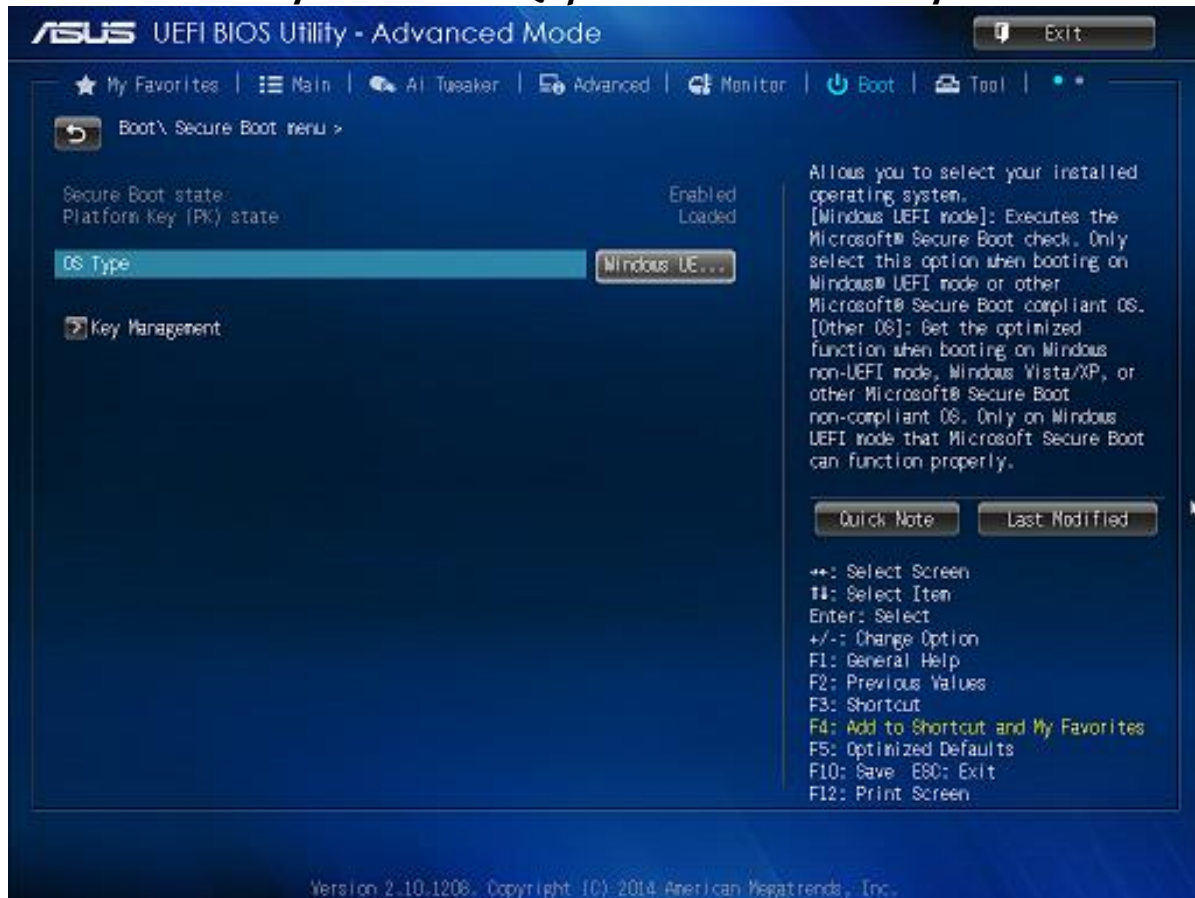
Windows Boot Manager (P1: M00: M06000A4X-00ERW40)

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Vig800S – ASUS Q87-E Default BIOS settings



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