

ML350 BIOS Manual

Version 1.0

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11 - UEFI Overview

The following section describes the ML350 Series UEFI. It shows each screen menu with a table describing the various fields and values.

12 - Main Page

Main		Advanced	Chipset	Security	Boot	Save & Exit
BIOS Information						Item help
BIOS Vender					American Megatrends	
Core Version					5.12	
Compliance					UEFI 2.5 ; PI 1.4	
BIOS Version					D7870X02	
Build Date					12/01/2017	
Platform Firmware Information						
BXT SOC					B1	
MRC Version					0.56	
PUNIT FW					2C	
PMC FW					03.29	
TXE FW					3.1.50.2222	
ISH FW					N/A	
GOP					10.0.1036	
CPU Flavor					BXT Notebook/Desktop	
Board ID					APL RVP 1C Lite (03)	
Fab ID					FAB1	
Memory Information						
Total Memory					2048 MB	
Memory Speed					1600MHz	
System Language					[English]	
System Date					[Mon, mm/dd/yyyy]	
System Time					[hh:mm:ss]	
→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit						

Field Name	BIOS Vender
Default Value	AMI Megatrends
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Core Version
Default Value	5.12
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Compliancy
Default Value	UEFI 2.4; PI 1.4
Comment	This field is not selectable. There is no help text associated with it.

Field Name	BIOS Version
Default Value	Display the version of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Build Date
Default Value	Display build time of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Access Level
Default Value	Display the access level.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	BXT SOC
Default Value	Display the SOC version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	MRC version
Default Value	Display the MRC version
Comment	This field is not selectable. There is no help text associated with it.

Field Name	PUNIT FW
Default Value	Display the PUNIT FW version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	PMC FW
Default Value	Display the PMC FW version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	TXE FW
Default Value	Display the TXE FW version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ISH FW
Default Value	Display the ISH FW version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	GOP
Default Value	Display the GOP version
Comment	This field is not selectable. There is no help text associated with it.

Field Name	CPU Flavor
Default Value	Display the CPU flavor.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Board ID
Default Value	Display the board ID.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Fab ID
Default Value	Display the fab ID.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Total Memory
Value	Display the installed memory size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Memory Speed
Value	Display the installed memory speed.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	System Language
Default Value	[English]
Comment	Choose the system default language.

Field Name	System Date
Default Value	[xxx mm/dd/yyyy]
Help	Set the Date. Use Tab to switch between Date elements.

Field Name	System Time
Default Value	[hh :mm :ss]
Help	Set the Time. Use Tab to switch between Time elements.

13 - Advanced Page

Main	Advanced	Chipset	Security	Boot	Save & Exit
<ul style="list-style-type: none"> ▶ SMART Settings ▶ NCT5524D Super IO Configuration ▶ Hardware Monitor ▶ S5 RTC Wake Settings ▶ CPU Configuration ▶ AMI Graphic Output Protocol Policy ▶ Network Stack Configuration ▶ USB Configuration ▶ Platform Trust Technology ▶ Thermal ▶ System Component ▶ RC ACPI Settings 					<p>Item help</p> <hr/> <p>→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>
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Field Name	SMART Settings
Help	System SMART Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	NCT5524D Super IO Configuration
Help	System Super IO Chip Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Hardware Monitor
Help	Monitor hardware status.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	S5 RTC Wake Settings
Help	Enable system to wake from S5 using RTC alarm.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	CPU Configuration
Help	CPU Configuration Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	AMI Graphic Output Protocol Policy
Help	User Select Monitor Output by Graphic Output Protocol.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Network Stack Configuration
Help	Network Stack Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	USB Configuration
Help	USB Configuration Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Platform Trust Technology
Help	Platform Trust Technology.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Thermal
Help	Thermal.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	System Component
Help	System Component.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	RC ACPI Settings
Help	RC ACPI Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

13.1 - SMART Settings

Advanced	
SMART Settings	Item help
SMART Self Test	[Disabled]
<p>→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>	
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Field Name	SMART Self Test
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Run SMART Self Test on all HDDs during POST.

13.2 - NCT5524D Super IO configuration

Advanced

NCT5524D Super IO Configuration

Super IO Chip	NCT5524D
Serial Port 1	[Enabled]

Item help

→←: 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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Field Name	Serial Port 1
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable or Disable Serial Port (COM).

14 - Hardware Monitor

Advanced		Item help
PC Health Status		
VR temperature	: +37° c	
DIMM temperature	: +44° c	
VCORE	: 1.3000V	
VIN0	: +0.928 V	
VIN2	: +1.064 V	
VCC3V	: +1.375 V	
VSB3V	: +3.302 V	
VBAT	: N/A	
AVSB	: +3.328 V	
		→← : 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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Field Name	VR temperature
Default Value	Display the temperature of the VR
Comment	This field is not selectable. There is no help text associated with it.

Field Name	DIMM temperature
Default Value	Display the temperature of the DIMM
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VCORE
Default Value	Display the voltage of the VCORE.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VIN0
Default Value	Display the voltage of the VIN0.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VIN2
Default Value	Display the voltage of the VIN2
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VCC3V
Default Value	Display the voltage of the VCC3V
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VSB3V
Default Value	Display the voltage of the VSB3V
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VBAT
Default Value	Display the voltage of the VBAT
Comment	This field is not selectable. There is no help text associated with it.

Field Name	AVSB
Default Value	Display the voltage of the AVSB
Comment	This field is not selectable. There is no help text associated with it.

14.1 - S5 RTC Wake Settings

Advanced	
Wake system from S5	[Disable]
Item help	
<p>→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>	
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Field Name	Wake system from S5
Default Value	[Disabled]
Possible Value	Disabled / Fixed time / Dynamic Time
Help	Enable or disable System wake on alarm event. Select FixedTime, system will wake on the hr::min::sec specified. Select DynamicTime, System will wake on the current time + Increase minute(s).

14.2 - CPU Configuration

Advanced		Item help
CPU Configuration		
▶ Socket 0 CPU Information		
Speed	1100MHz	
64-bit	Supported	
▶ CPU Power Management		
VT-d	[Enabled]	
Monitor Mwait	[Enabled]	
DTS	[Enabled]	
		→←: 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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Field Name	Socket 0 CPU Information
Help	Socket specific CPU Information.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	CPU Power Management
Help	CPU Power Management options.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	VT-d
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable CPU VT-d.

Field Name	Monitor Mwait
Default Value	[Enabled]
Possible Value	Disabled / Enabled / Auto
Help	Enable/Disable Monitor Mwait.

Field Name	DTS
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enabled/Disabled Digital Thermal Sensor.

14.3 - Socket 0 CPU Information

Advanced		Item help
Socket 0 CPU Information		
Intel(R) Pentium(R) CPU N4200 @ 1.1GHz		
CPU Signature	506C9	
Microcode Patch	28	
Max CPU Speed	1100MHz	
Min CPU Speed	800MHz	
Processor Cores	4	
Intel HT Technology	Not Supported	
Intel VT-x Technology	Supported	
L1 Data Cache	24 kB x 4	
L1 Code Cache	32 kB x 4	
L2 Cache	1024 kB x2	
L3 Cache	Not Present	
		→←: 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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Field Name	CPU Signature
Default Value	Display the CPU signature
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Microcode Patch
Default Value	Display the microcode patch.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Max CPU speed
Default Value	Display the max speed of CPU.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Min CPU Speed
Default Value	Display the min speed of CPU.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Processor Cores
Default Value	Display the core numbers of processor.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Intel HT Technology
Default Value	Display the Intel HT Technology.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Intel VT-x Technology
Default Value	Display the Intel VT-x Technology.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VSM
Default Value	Display the voltage of the VSM
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Data Cache
Default Value	Display the L1 data cache size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Code Cache
Default Value	Display the L1 code cache size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L2 Cache
Default Value	Display the L2 cache size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L3 Cache
Default Value	Display the L3 cache size.
Comment	This field is not selectable. There is no help text associated with it.

14.4 - CPU Power Management

Advanced	
CPU Power Management Configuration	
EIST	[Enabled]
Turbo Mode	[Enabled]
Item help	
→←: 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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Field Name	EIST
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Intel SpeedStep.

Field Name	Turbo Mode
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Turbo Mode.

14.5 - AMI Graphic Output Protocol Policy

Advanced	
Intel(R) Graphics Controller Intel(R) GOP Driver [10.0.1036] Output Select [DP1]	Item help <hr/> →←: 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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Field Name	Output Select
Default Value	Depend on connecting port
Possible Value	DP1 / DP2
Help	Output Interface.

14.6 - Network Stack Configuration

Advanced	
Network Stack	[Disabled]
Item help	
<p>→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>	
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Field Name	Network Stack
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable UEFI Network Stack.

14.7 - USB Configuration

Advanced		Item help
USB Configuration		
USB Module Version	17	
USB Controllers:	1 XHCI	
USB Devices:	1 Keyboard, 1 M...	
		→←: 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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Field Name	USB Module Version
Default Value	Display the USB module version
Comment	This field is not selectable. There is no help text associated with it.

Field Name	USB Controllers
Default Value	Display the USB controller number.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	USB Devices
Default Value	Display the USB device number.
Comment	This field is not selectable. There is no help text associated with it.

14.8 - Platform Trust Technology

Advanced	
TPM Configuration	Item help
fTPM [Enabled]	→←: 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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Field Name	fTPM
Default Value	[Enabled]
Possible Value	Enabled / Disabled
Help	Enable/Disable fTPM.

14.9 - Thermal

Advanced		Item help
Thermal Configuration Parameters		
Automatic Thermal Reporting	[Enabled]	
Dynamic Platform & Thermal Framework		
DPTF	[Enable]	
DPTF Processor	[Enable]	
Active Thermal Trip Point	90	
Passive Thermal Trip Point	100	
S3/CS Thermal Trip Point	110	
Hot Thermal Trip Point	110	
Critical Thermal Trip Point	105	
Thermal Sampling Period	0	
FAN Device	[Enabled]	
Generic Device 1	[Enabled]	
Active Thermal Trip Point	60	
Passive Thermal Trip Point	65	
S3/CS Thermal Trip Point	70	
Hot Thermal Trip Point	75	→←: Select Screen
Critical Thermal Trip Point	80	↑↓: Select Item
Thermal Sampling Period	50	Enter: Select
Generic Device 2	[Enabled]	+/- : Change Opt
Active Thermal Trip Point	60	F1: General Help
Passive Thermal Trip Point	65	F2: Previous Values
S3/CS Thermal Trip Point	70	F3: Optimized Defaults
Hot Thermal Trip Point	75	F4: Save & Exit
Critical Thermal Trip Point	80	ESC: Exit
Thermal Sampling Period	50	
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Field Name	Automatic Thermal Reporting
Default Value	[Enabled]
Possible Value	Disabled / Enabled

Help	Configure _CRT, _PSV and _AC0 automatically based on values recommended in BWG's Thermal Reporting for Thermal Management settings. Set to Disabled for manual configuration.
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Field Name	DPTF
Default Value	[Enable]
Possible Value	Disable / Enable

Field Name	DPTF Processor
Default Value	[Enable]
Possible Value	Disable / Enable
Help	Enable/Disable Processor Participant Device

Field Name	Active Thermal Trip Point
Default Value	90
Possible Value	0~127
Help	This value controls the temperature of the ACPI Active Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Passive Thermal Trip Point
Default Value	100
Possible Value	0~127
Help	This value controls the temperature of the ACPI Passive Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	S3/CS Thermal Trip Point
Default Value	110
Possible Value	0~127
Help	This value controls the temperature of the ACPI Critical Thermal Trip Point for entering S3 or CS. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Hot Thermal Trip Point
Default Value	110
Possible Value	0~127
Help	This value controls the temperature of the ACPI Hot Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Critical Thermal Trip Point
Default Value	105
Possible Value	0~127
Help	This value controls the temperature of the ACPI Critical Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Thermal Sampling Period
Default Value	0
Possible Value	0~100

Help	The polling interval in 10ths of seconds. A value of 0 tells the driver to use interrupts. NOTE: The granularity of the sampling period is 0.1 seconds. For example, if the sampling period is 30 seconds, then _TSP needs to report 300; if the sampling period is 0.5 seconds, then choose 5.
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Field Name	FAN Device
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable the Fan device.

Field Name	Generic Device 1
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Thermistor 1 device.

Field Name	Active Thermal Trip Point
Default Value	60
Possible Value	0~127
Help	This value controls the temperature of the ACPI Active Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Passive Thermal Trip Point
Default Value	65
Possible Value	0~127
Help	This value controls the temperature of the ACPI Passive Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	S3/CS Thermal Trip Point
Default Value	70
Possible Value	0~127
Help	This value controls the temperature of the ACPI Critical Thermal Trip Point for entering S3 or CS. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Hot Thermal Trip Point
Default Value	75
Possible Value	0~127
Help	This value controls the temperature of the ACPI Hot Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Critical Thermal Trip Point
Default Value	80
Possible Value	0~127
Help	This value controls the temperature of the ACPI Critical Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Thermal Sampling Period
Default Value	50
Possible Value	0~100
Help	The polling interval in 10ths of seconds. A value of 0 tells the driver to use interrupts. NOTE: The granularity of the sampling period is 0.1 seconds. For example, if the sampling period is 30 seconds, then _TSP needs to report 300; if the sampling period is 0.5 seconds, then choose 5.

Field Name	Generic Device 2
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Thermistor 2 device.

Field Name	Active Thermal Trip Point
Default Value	60
Possible Value	0~127
Help	This value controls the temperature of the ACPI Active Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Passive Thermal Trip Point
Default Value	65
Possible Value	0~127
Help	This value controls the temperature of the ACPI Passive Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	S3/CS Thermal Trip Point
Default Value	70
Possible Value	0~127
Help	This value controls the temperature of the ACPI Critical Thermal Trip Point for entering S3 or CS. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Hot Thermal Trip Point
Default Value	75
Possible Value	0~127
Help	This value controls the temperature of the ACPI Hot Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Critical Thermal Trip Point
Default Value	80
Possible Value	0~127
Help	This value controls the temperature of the ACPI Critical Thermal Trip Point. NOTE: a value of zero will cause the DPTF driver to disable the trip point.

Field Name	Thermal Sampling Period
Default Value	50
Possible Value	0~100

Help

The polling interval in 10ths of seconds. A value of 0 tells the driver to use interrupts.
NOTE: The granularity of the sampling period is 0.1 seconds. For example, if the sampling period is 30 seconds, then `_TSP` needs to report 300; if the sampling period is 0.5 seconds, then choose 5.

14.10 - System Component

Advanced	
PNP Setting	[Disable]
Item help	
<p>→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>	
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Field Name	PNP Setting
Default Value	[Disable]
Possible Value	Disable / Performance / Power / Power & Performance
Help	Select PNP setting mode, Disable, Performance, Power or Power & Performance mode.

14.11 - RC ACPI Settings

Advanced		
Native ASPM	[Enable]	Item help
Low Power S0 Idle Capability	[Enable]	
		→←: 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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Field Name	Native ASPM
Default Value	[Enable]
Possible Value	Disabled / Enable
Help	On enable, vista will control the ASPM support for the device. If disabled, the BIOS will.

Field Name	Low Power S0 Idle Capability
Default Value	[Enable]
Possible Value	Disable / Enable
Help	This variable determines if we enable ACPI Lower Power S0 Idle Capability (Mutually exclusive with Smart connect). Also updates the Platform S0ix Capability Support in IGD OpRegion.

15 - Chipset

Main	Advanced	Chipset	Security	Boot	Save & Exit
Memory Information Total Memory 2048 MB (LPDDR3) Memory SO-DIMM1 2048 MB (LPDDR3) ▶ PCI Express Configuration ▶ USB Configuration Auto Power On [Disable] Wake On Lan [Disable] OS Selection [Windows]					Item help →←: 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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Field Name	Total Memory
Default Value	Display the total memory size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Memory Slot0
Default Value	Display the memory size of slot0.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	PCI Express Configuration
Help	PCI Express Configuration Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	USB Configuration
Help	USB Configuration Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Auto Power On
Default Value	[Disable]
Possible Value	Enable / Disable / Last State
Help	Specify what state to go to when power is re-applied after a power failure (G3 state). Enable: System will boot directly as soon as power applied. Disable: System will keeps in power-off state until power button is pressed.

Field Name	Wake On Lan
Default Value	[Disable]
Possible Value	Disable / Enable
Help	Enable or Disable the Wake on Lan.

Field Name	OS Selection
Default Value	[Windows]
Possible Value	Windows / Intel Linux
Help	Select the target OS.

15.1 - PCI Express Configuration

Chipset	
PCI Express Configuration ▶ PCI Express Root Port 3 ▶ LAN 1 ▶ PCI Express Root Port 5 ▶ LAN 2	Item help →←: 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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Field Name	PCI Express Root Port 3
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	LAN 1
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	PCI Express Root Port 5
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	LAN2
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.
Comment	Press Enter when selected to go into the associated Sub-Menu.

15.2 - PCI Express Root Port 3

Chipset		Item help
PCI Express Root Port 3	[Auto]	
If DISABLED, goto ENABLE first then Auto on next boot		
ASPM	[Auto]	
		→←: 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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Field Name	PCI Express Root Port 3
Default Value	[Auto]
Possible Value	Disable / Enable / Auto
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disable / L0s / L1 / L0sL1 / Auto
Help	PCI Express Active State Power Management settings.

15.3 - LAN 1

Chipset		Item help
LAN 1	[Auto]	
If DISABLED, goto ENABLE first then Auto on next boot		
ASPM	[Auto]	
		→←: 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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Field Name	LAN 1
Default Value	[Auto]
Possible Value	Disable / Enable / Auto
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disable / L0s / L1 / L0sL1 / Auto
Help	PCI Express Active State Power Management settings.

15.4 - PCI Express Root Port 5

Chipset		Item help
PCI Express Root Port 5	[Auto]	
If DISABLED, goto ENABLE first then Auto on next boot		
ASPM	[Auto]	
		→←: 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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Field Name	PCI Express Root Port 5
Default Value	[Auto]
Possible Value	Disable / Enable / Auto
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disable / L0s / L1 / L0sL1 / Auto
Help	PCI Express Active State Power Management settings.

15.5 - LAN2

Chipset		Item help
LAN2	[Auto]	
If DISABLED, goto ENABLE first then Auto on next boot		
ASPM	[Auto]	
		→←: 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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Field Name	LAN2
Default Value	[Auto]
Possible Value	Disable / Enable / Auto
Help	Control the PCI Express Root Port. AUTO: To disable unused root port automatically for the most optimum power savings. Enable: Enable PCIe root port. Disable: Disable PCIe root port.

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disable / L0s / L1 / L0sL1 / Auto
Help	PCI Express Active State Power Management settings.

15.6 - USB Configuration

Chipset		Item help
USB VBUS	[Enable]	
XHCI Compliance Mode	[Enable]	
		→←: 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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Field Name	USB VBUS
Default Value	[Enable]
Possible Value	Disable / Enable
Help	VBUS should be Enable in HOST mode. It should be Disable in OTG device mode.

Field Name	XHCI Compliance Mode
Default Value	[Enable]
Possible Value	Enable / Disable
Help	Options to Enable XHCI Link Compliance Mode. Default is Enable to enable Compliance Mode. Set Disable to disable Compliance Mode.

Field Name	P1:TS128GMSA370
Help	HDD Security Configuration for selected drive.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Secure Boot
Help	Customizable Secure Boot settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.
Help	Secure Boot Mode – Custom & Standard, Set UEFI Secure Boot Mode to STANDARD mode or CUSTOM mode, this change is effect after save. And after reset, the mode will return to STANDARD mode.

16.1 - Secure Boot

Security		Item help
System Mode	Setup	
Secure Boot	Not Active	
Vendor Keys	Active	
Attempt Secure Boot	[Enabled]	
Secure Boot Mode	[Standard]	
▶ Key Management		
		→←: 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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Field Name	Attempt Secure Boot
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Secure Boot activated when Platform Key(PK) is enrolled, System mode is User/Deployed, and CSM function is disabled.

Field Name	Secure Boot Mode
Default Value	[Standard]
Possible Value	Standard / Customized
Help	Secure Boot Mode – Custom & Standard, Set UEFI Secure Boot Mode to STANDARD mode or CUSTOM mode, this change is effect after save. And after reset, the mode will return to STANDARD mode.

17 - Boot

Main	Advanced	Chipset	Security	Boot	Save & Exit
Boot Configuration					Item help
Setup Prompt Timeout				3	
Bootup NumLock State				[On]	
Fast Boot				[Enable]	
FIXED BOOT ORDER Priorities					
Boot Option #1				[Hard Disk:Windows B...]	
Boot Option #2				[CD/DVD]	
Boot Option #3				[USB Hard Disk]	
Boot Option #4				[USB CD/DVD]	
Boot Option #5				[USB Key]	
Boot Option #6				[USB Floppy]	
Boot Option #7				[USB Lan]	
Boot Option #8				[Network]	
▶ UEFI Hard Disk Drive BBS Priorities					
					→←: 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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Field Name	Setup Prompt Timeout
Default Value	3
Possible Value	1~65535
Help	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Field Name	Bootup NumLock State
Default Value	[On]
Possible Value	On / Off
Help	Select the keyboard NumLock state.

Field Name	Fast Boot
Default Value	[Enable]
Possible Value	Disable / Enable

Help	Enables or disables FastBoot features. Most probes are skipped to reduce time cost during boot.
-------------	--

Field Name	Boot Option #1
Default Value	[Hard Disk:Windows Boot Manager (P1: TS128GMSA370)]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	Boot Option #2
Default Value	[CD/DVD]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	Boot Option #3
Default Value	[USB Hard Disk]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	Boot Option #4
Default Value	[USB CD/DVD]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	Boot Option #5
Default Value	[USB key]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	Boot Option #6
Default Value	[USB Floppy]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	Boot Option #7
Default Value	[USB Lan]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	Boot Option #8
Default Value	[Network]
Possible Value	Hard Disk:Windows Boot Manager (P1: TS128GMSA370) CD/DVD USB Hard Disk USB CD/DVD USB Key USB Floppy USB Lan Network Disable
Help	Sets the system boot order.

Field Name	UEFI Hard Disk Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available UEFI Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

17.1 - UEFI Hard Disk Drive BBS Priorities

Boot	
Boot Option #1	Item help
[Windows Boot Manage...]	<p>→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>
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Field Name	Boot Option #1
Default Value	[Windows Boot Manager (P1: TS128GMSA370)]
Possible Value	Windows Boot Manager (P1: TS128GMSA370) Disable
Help	Sets the system boot order.

18 - Save & Exit

Main	Advanced	Chipset	Security	Boot	Save & Exit	Item help
Save Options Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Restore Defaults Boot Override Windows Boot Manager (P1: TS128GMSA370) Launch EFI Shell from filesystem device						Item help →←: 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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Field Name	Save Changes and Exit
Help	Exit system setup after saving the changes.

Field Name	Discard Changes and Exit
Help	Exit system setup without saving any changes.

Field Name	Save Changes and Reset
Help	Reset the system after saving the changes.

Field Name	Discard Changes and Reset
Help	Reset system setup without saving any changes.

Field Name	Restore Defaults
Help	Restore/Load Default values for all the setup options.

Field Name	Windows Boot Manager (P1: TS128GMSA370)
Field Name	Launch EFI Shell from filesystem device
Help	Attempts to Launch EFI Shell application (Shell.efi) from one of the available filesystem devices.