MiTAC Panel PC System P156-11TGS Product Guide v1.0

Front View



Rear View

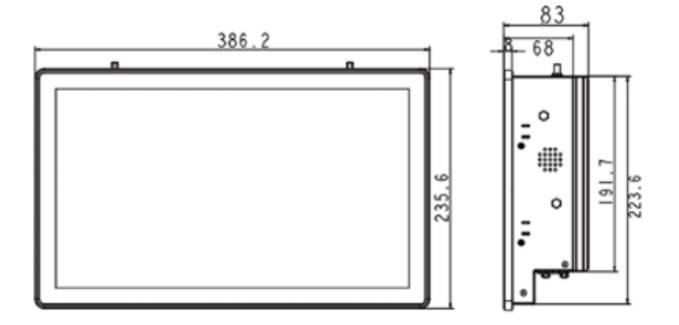


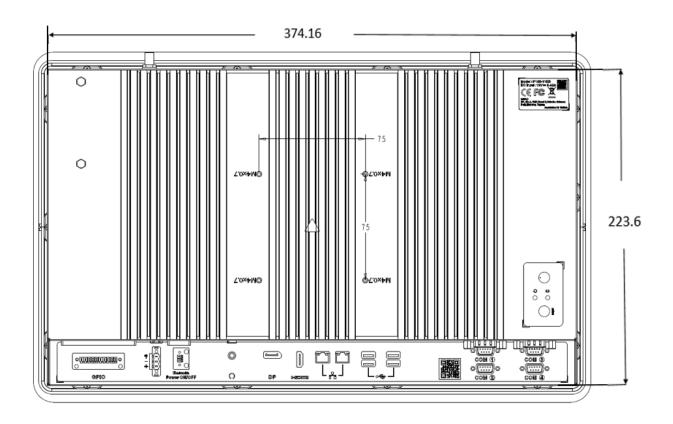
Bottom View



Mechanical Dimension

P156-11TGS dimension: 386.2 x 235.6 x 83 mm



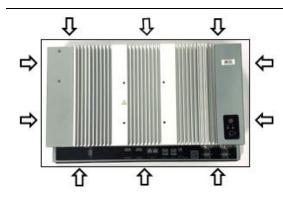


Product Specifications

LCD	DISPLAY TYPE	15.6" TFT-LCD
	MAX. RESOLUTION	1920 x 1080
	MAX. COLORS	16.2M (8 bit / color)
	LUMINANCE (cd/m2)	450
	VIEWING ANGLE (H/V)	170° / 170°
	LED BACKLIGHT LIFETIME (hrs)	50,000
	HIGH BRIGHTNESS	Option
TOUCH SCREEN	ТҮРЕ	P-CAP / 5 Wire Resistive(True-flat)
	TOUCH	True-flat 10 points / single point
	AR/AG/AF COATING	Option
SYSTEM	PROCESSOR	11th Gen Intel® Tiger Lake-UP3 i3-1115G4E (Dual Core, 6MB Cache, up to 3.90 GHz) / option: 11th Gen Tiger Lake-UP3 Celeron 6305E / i5- 1145G7E / i7-1185G7E
	CHIPSET	Intel® SoC Integrated

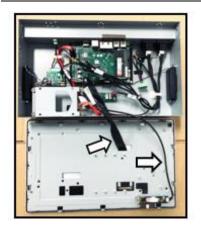
	SYSTEM MEMORY	DDR4 3200 MHz / 1 x 260-pin SO-DIMM / Max. 32GB (Non-ECC)
	ETHERNET	Intel® I219-LM Giga LAN + Intel® I225-LM 2.5GbE LAN
	I/O PORT	1 x 3-pin Phoenix type terminal block DC input / 2 x RJ45
		/ 3 x RS232
		/ 1 x 2-pin remote power on/off
		/ 1 x RS232 / 422 / 485
		/ 2 x HDMI 1.4
		/ 4 x USB 3.1 Gen 2
	EXPANSION SLOT	Wireless: 1 x M.2 2230 E key (PCIeX1, USB2.0)
		/ Storage/LTE/5G Slot: 1 x M.2 2280/2260/2242/3042/3052 B Key (USB2.0/*PCIeX1/SATAIII) *Not support M.2 M Key NVMe SSD
		/**5G card support is by BOM option. Please check with sales about
		the M.2 B Key 3052 5G card spec if you have any request
	STORAGE	1 x SATA 2.5" HDD / SSD bay
	STEREO SPEAKER	2 x 3W
	OS SUPPORT	Windows® 10 64bit
	WATCHDOG TIMER	1~255 steps by software program
POWER	POWER INPUT	DC-in 8~24V
REQUIREMENT	POWER ADAPTER	AC to DC / DC19V / 3.4A / 65W adapter
MECHANICAL	MOUNTING	VESA 75/100mm / Panel Mount
	DIMENSIONS (W X H X D)	386.2 x 235.6 x 83 mm
	WEIGHT	5kg
ENVIRONMENTAL	OPERATING TEMPERATURE	-20~55°C (-4 ~ 131°F)
	STORAGE TEMPERATURE	-20 ~ 70°C (-4 ~158°F)
	STORAGE HUMIDITY	10% ~ 90% @40°C non-condensing
	VIBRATION	Operating Random vibration Test 5-500Hz / 2Grms/3Axis @with SSD,
	RESISTANCE	follow IEC 60068-2-64
	SHOCK RESISTANCE	Operating 10 G peak acceleration (11 ms duration) / follow IEC 60068- 2-27
	EMC	CE / FCC Class B
	FRONT PANEL PROTECTION	IP65 Compliant

Quick Installation Guide



Remove 10pcs rear cover screws.

(Torque 4.5 +/-0.5 Kgf-cm)



Open rear cover and pay attention to the LVDS cable, Inverter cable and TP cable.



Disassemble the SSD bracket.

(Torque 4.5 +/-0.5 Kgf-cm)



Install SSD with the screws in AK.

(Torque 4.5 +/-0.5 Kgf-cm)

Install SSD bracket and connect the cables.

(Torque 4.5 +/-0.5 Kgf-cm)

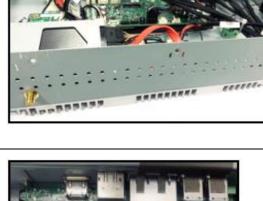
Install SODIMMs

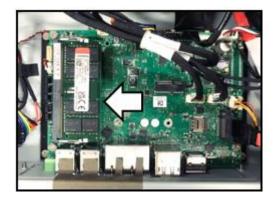
Remove the rubber caps and install antennas in rear cover (option).

(Torque 4.5 +/-0.5 Kgf-cm)

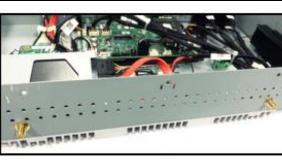
Install WIFI card and connect the antennas. (option)

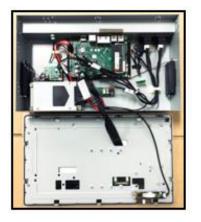
(Torque 4.5 +/-0.5 Kgf-cm)



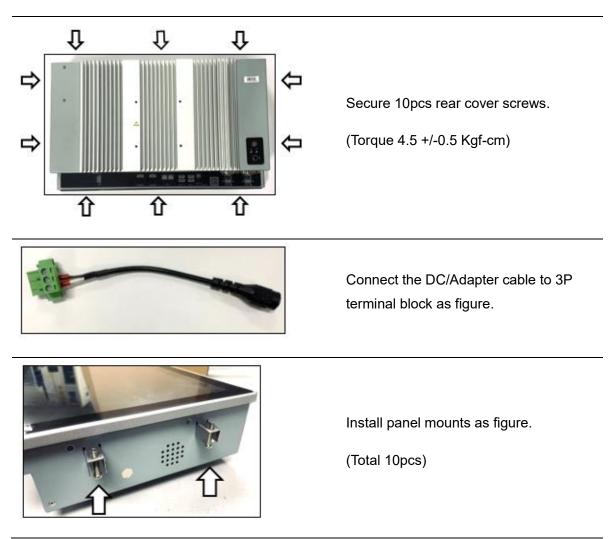








Check LVDS cable Inverter cable and TP cable connection before secure the rear cover.



[Note] need manually install drivers

Please check the latest drivers on MiTAC official website https://www.mitacmct.com/IndustrialPanelPC P156-11TGS P156-11TGS

3.5" SBC M/B Components

Figure 1 shows location of the major components on the top side of MITAC 3.5''

SBC M/B PD11TGS.

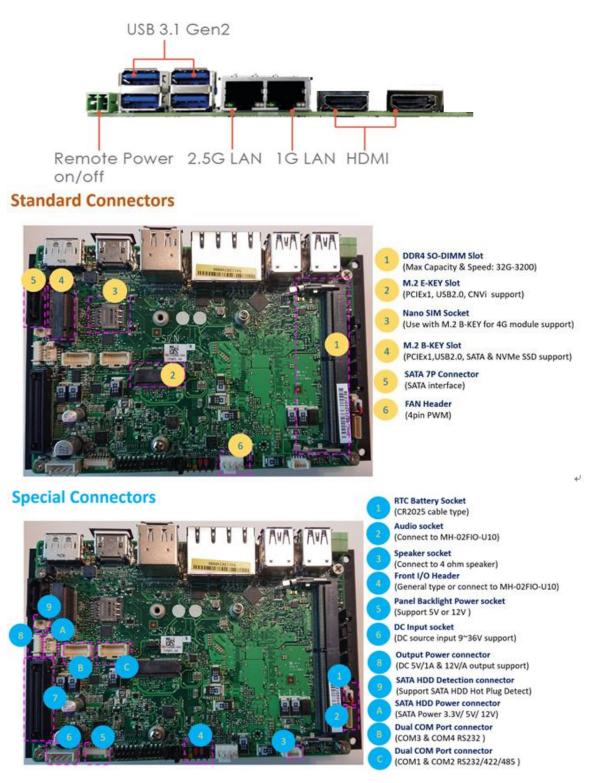
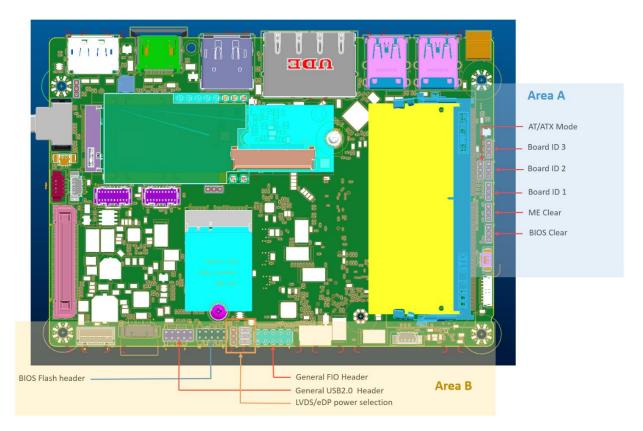
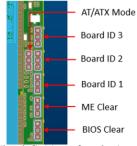


FIGURE 1. MITAC 3.5" SBC M/B COMPONENTS

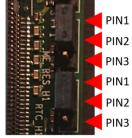
Jumper setting



Area A



The definition of each pin position of herders in the area A is the same.



• AT/ATX Mode

Jumper is set to Pin2-Pin3 [ATX mode/default] System power on by power switch or wake up event Jumper is set to Pin2-Pin1 System power on when DC power source is plug in

• Board ID 1 ~3

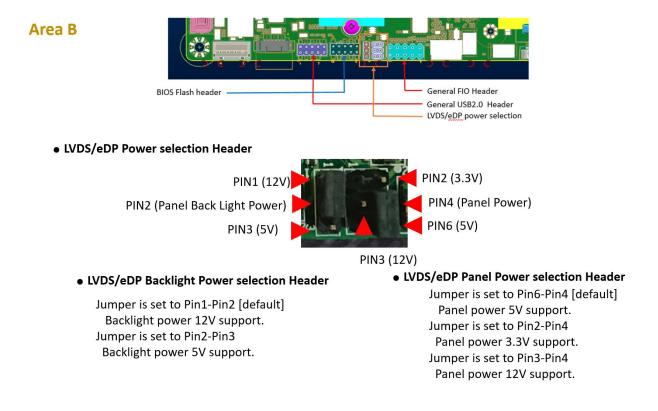
These headers are used as MCT production identification. Any changes may make the system unable to boot.

• ME Clear

Jumper is set to Pin1-Pin2 [default] Keep current ME setting. Jumper is set to Pin2-Pin3 Intel ME will be cleared to the default setting.

• BIOS Clear

Jumper is set to Pin1-Pin2 [default] Keep current BIOS setting. Jumper is set to Pin2-Pin3 BIOS will be cleared to the default setting.



• BIOS Flash Header

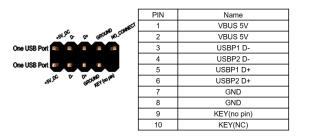
This header is used for debugging or updating the BIOS.



PIN	Name
FIIN	
1	ROM_CS0
2	3VSB (3.3V)
3	ROM_MISO
4	ROM_IO3
5	ROM_IO2
6	ROM_CLK
7	Х
8	ROM_MOSI
9	GND
10	NC

• USB2.0 Header

General 2.0 pitch dual USB2.0 header. Can also be connected to MH-02FIO-U10 for expansion.



• FIO Header

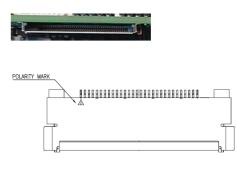
General 2.0 pitch FIO header Can also be connected to MH-02FIO-U10 for expansion.

PWR	LED			
(+)	(-)	ON/	OFF	
•				
+				H
(+)	(-)	RE	SET	
HDD	LED			

PIN	Name
1	HDD LED+
2	Power LED+ (S0)
3	HDD LED-
4	Power LED- (S3)
5	GND
6	PWRBT_N
7	RESET_N
8	GND
9	VCC(5V)

Internal Connector Pin Definition

• eDP or LVDS



PIN	LVDS Define	eDP Define
	LVDS0 LINK3 CON DP	NC
2	LVDS0 LINK3 CON DN	GND
3	LVDS0_LINK2_CON_DP	eDP TX3 DN
4	LVDS0_LINK2_CON_DN	eDP_TX3_DP
5	LVDS0_LINK2_CON_DN	GND
6	LVDS0_LINK1_CON_DP	eDP TX2 DN
7	LVDS0_LINK1_CON_DN	eDP_TX2_DN eDP_TX2_DP
8	LVDS0_LINK0_CON_DP	GND
9	LVDS1 LINK3 CON DP	eDP TX1 DN
10	LVDS1_LINK3_CON_DP	eDP_TX1_DN
11	LVDS1_LINK3_CON_DN	GND
11	LVDS1_LINK2_CON_DP	eDP TX0 DN
13 14	LVDS1_LINK1_CON_DP LVDS1_LINK1_CON_DN	eDP_TX0_DP GND
14		
	LVDS1_LINK0_CON_DP	eDP_AUX_DN
16	LVDS1_LINK0_CON_DN	eDP_AUX_DP
17	GND	GND
18		anel VDD
19		anel VDD
20		anel VDD
21		anel VDD
22	Pa	anel VDD
23		GND
24		GND
25		GND
26	LVDS0_CLK_CON_DP	GND
27	LVDS0_CLK_CON_DN	Hot Plug Detect
28		GND
29		GND
30		GND
31	DDC_SCL	GND
32		light Enable
33		light Control
34	LVDS1_CLK_CON_DP	NC
35	LVDS1_CLK_CON_DN	NC
36		klight VCC
37		klight VCC
38		klight VCC
39	Bac	klight VCC
40	DDC_SDA	NC

• M.2 B-KEY Slot

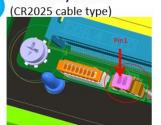
(PCIEx1,USB2.0, SATA & NVMe SSD support)

74 72 70	3.3V 3.3V	CONFG_2	75
			70
		GND	73
	3.3V	GND	71
68	NC	NC	69
66	SIM_DET	GPIO(O)(1.8V)(WAN_RSET#)	67
64	NC	NC	65
62	NC	NC	63
60	NC	NC	61
58	NC	NC	59
56	NC	GND	57
54	PEWAKE#	CLOCK+	55
52	CLKREQ#	CLOCK-	53
50	PERST#	GND	51
48	NC	SATA_TXP / PCIEx1_TXP	49
46	NC	SATA_TXN / PCIEx1_TXN	47
44	NC	GND	45
42	NC	SATA RXN / PCIEx1 RXP	43
40	NC	SATA RXP / PCIEx1 RXN	41
38	DEVSLP	GND	39
36	UIM PWR	NC	37
34	UIM DAT	NC	35
32	UIM CLK	GND	33
30	UIM RESET#	NC	31
28	NC	NC	29
26	NC	GND	27
24	NC	GPIO (I) (O) (1.8V) (M2B DPR SEL)	25
22	GND	GPIO (I) (3.3V) (M2B_WAN_WAKE#)	23
20	NC	CONFG 0	21
18	Module Key	Module Key	19
16	Module Key	Module Key	17
14	Module Key	Module Key	15
12	Module Kev	Module Key	13
10	,	GND	11
8		USB2.0 D-	9
6		USB2.0 D+	7
4		GND	5
2		GND	3
		CONFG 3	1

• Without USB3.0 inter face.

Special Connectors

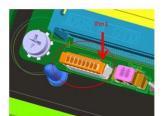
RTC Battery Socket



PIN	Name	
1	VBAT	
2	GND	



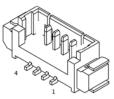
Audio socket (Connect to MH-02FIO-U10)



PIN	Name
1	HPOUT_JD
2	HP_LOUT_R
3	HP_LOUT_L
4	RING2
5	
6	SLEEVE
7	AGND
8	AGND



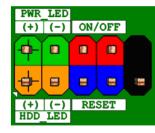
Speaker socket (Connect to 4 ohm speaker)



PIN	Name
1	LINE OUT L-
2	LINE OUT L+
3	LINE OUT R-
4	LINE OUT R+

Front I/O Header

(General type or connect to MH-02FIO-U10)



PIN	Name
1	HDD LED+
2	Power LED+ (S0)
3	HDD LED-
4	Power LED- (S3)
5	GND
6	PWRBT_N
7	RESET_N
8	GND
9	VCC(5V)

Panel Backlight Power socket (Support 5V or 12V)









PIN	Name
1	LVDS_BKTEN
2	BKLT_CTRL
3	BKLT_PWR (5V or 12V)
4	BKLT_PWR (5V or 12V)
5	GND
6	GND

*12V maximum current 1.2A (other 12V power without loading) Assumed LVDS Panel power usage 60% = 0.72A 5V maximum current 2A Assumed LVDS Panel power usage 60% = 1.2A

PIN	Name
1	GND
2	DC IN(8-24V)
3	DC_IN(8-24V)
4	GND



PIN	Name	
1	NA	
2	GND	
3	5V / 1A	
4	12V / 1A	

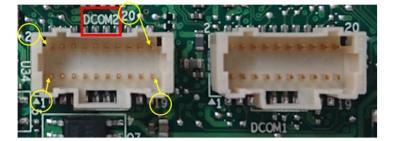


SATA HDD Power connector (SATA Power 3.3V/ 5V/ 12V)

PIN	NAME
1	V_3P3_SATA
2	GND
3	V_5P0_SATA
4	V_12P0_SATA



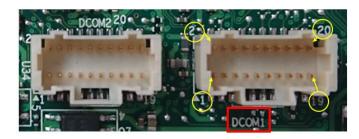




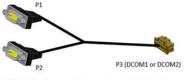
PIN	RS232	
1	NDCD3	
2	NRX3	
3	NTX3	
4	NDTR3	
5	GND	
6	NDSR3	
7	NRTS3	
8	NCTS3	
9	NRI3	
10	х	
11	NDCD4	
12	NRX4	
13	NTX4	
14	NDTR4	
15	GND	
16	NDSR4	
17	NRTS4	
18	NCTS4	
19	NRI4	
20	х	



Dual COM Port connector DCOM1 (RS232/422/485) (RS232)



PIN	RS232	RS422	RS485
1	NDCD1	TX-	D-
2	NRX1	TX+	D+
3	NTX1	RX+	X
4	NDTR1	RX-	X
5	GND	GND	GND
6	NDSR1	X	X
7	NRTS1	X	X
8	NCTS1	X	X
9	NRI1	X	X
10	Х	X	X
11	NDCD2	Х	X
12	NRX2	Х	X
13	NTX2	Х	X
14	NDTR2	Х	X
15	GND	X	X
16	NDSR2	X	X
17	NRTS2	X	X
18	NCTS2	X	X
19	NRI2	X	X
20	Х	Х	X



Reference cable concept drawing

External Connector Pin Definition

• 2 PIN terminal block for Power Button





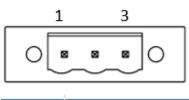
Port B 1.0G

States	Left LED for link [Green LED]	Right LED for Speed [Orange + Green LED]
LAN link is not established	OFF	OFF
10Mb/s data rate	ON/Blinking	OFF
100Mb/s data rate	ON/Blinking	Green ON
1000Mb/s data rate	ON/Blinking	Orange ON

Port A 2.5G

States	Left LED for link [Green LED]	Right LED for Speed [Orange + Green LED]
LAN link is not established	OFF	OFF
10/100Mb/s data rate	ON/Blinking	OFF
1000Mb/s data rate	ON/Blinking	Orange ON
2500Mb/s data rate	ON/Blinking	Green ON

(3-pin Phoenix type terminal block DC input)



PIN	Signal Name
1	+
2	-
3	GND

(2pin terminal block)



PIN -	Signal name	ę
ŀ	ground	¢
2₽	Power switch.	¢

MITAC Panel PC System P156-11TGS BIOS Specifiction

1. MAIN PAGE

Main Advanced Event Logs Se	Aptio Setup – AMI curity Boot Save & Exit	
BIOS Information		Set the Date. Use Tab to
BIOS Vendor	American Megatrends	switch between Date elements.
BIOS Version	D8340X04	Default Ranges:
Build Date and Time	11/23/2020 16:33:10	Year: 1998–2099 Months: 1–12
Processor Information		Days: Dependent on month
Name	TigerLake ULT	Range of Years may vary.
Туре	Genuine Intel(R) CPU 0000 @ 2.30GHz	
Microcode Revision	68	
Total Memory	4096 MB	
Memory Speed	2133 MT/s	
		++: Select Screen
PCH Information		↑↓: Select Item
Name	TGL PCH-LP	Enter: Select
ME FW Version	15.0.0.1240	+/−: Change Opt. F1: General Help
Serial ATA Port 1	Empty	F2: Previous Values
Serial ATA Port 2	Empty	F3: Optimized Defaults F4: Save & Reset
System Date	[Wed 01/01/2020]	ESC: Exit
System Time	[02:33:13]	

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Field Name	BIOS Vendr
Default Value	American Megatrends
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 and Time
Default Value	Display build date of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Processor Information

Value	Display the installed CPU brand.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Microcode Version
Value	Display the CPU microcode revision.
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 Frequency
Comment	This field is not selectable. There is no help text associated with it.

Field Name	PCH Information
Value	Display PCH family
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME FW Version
Value	ME Firmware Version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Serial ATA Port 1
Value	Display the installed SATA device model/size of port 1.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Serial ATA Port 2
Value	Display the installed SATA device model/size of port 2.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	System Date
Default Value	[Www mm/dd/yyyy]
Possible Value	Www:Mon/Tue/Wed/Thu/Fri/Sat/Sun
	mm : 1-12
	dd : 1-31
	уууу : 1998-2099
Help	Set the Date. Use Tab to switch between Date elements. Default Rangers:
	Year : 1998-2099
	Months: 1-12
	Days : Dependent on month Range of Years may vary.

Field Name	System Time
Default Value	[hh :mm :ss]
Possible Value	hh : 0-23
	mm : 0-59
	ss : 0-59
Help	Set the Time. Use Tab to switch between Time elements.

2. ADVANCED PAGE

Aptio Setup – AMI Main Advanced Event Logs Security Boot Save & Exit	
 Onboard Device Configuration CPU Configuration Power & Performance Trusted Computing NCT6126D Super IO Configuration Hardware Monitor S5 RTC Wake Settings Network Stack Configuration NVMe Configuration Intel(R) Ethernet Controller (3) I225-LM - 00:A0:C9:00:00:00 	Onboard Device Configuration
	<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>

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Field Name	Onboard Device
Help	Onboard Device Configuration.
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	Power & Performance
Help	Power & Performance Options.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

Field Name	NCT6126D Super IO Configuration
Help	System Super IO Chip Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

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

2.1 Onboard Device

Advanced	Aptio Setup – AMI	
Onboard Device Turbo Mode State After G3 DVMT Pre-Allocated DVMT Total Gfx Mem Wake on LAN Enable HD Audio ME Update LVDS Interface Type TPM Device Selection	[Enabled] [S5 State] [64M] [256M] [Enabled] [Enabled] [Disabled] [Disabled] [dTPM]	Enable/Disable processor Turbo Mode (requires EMTTM enabled too).
		++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Ve	rsion 2.21.1278 Copyright (C)	2021 AMI

Field Name	Turbo Mode
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enable/Disable processor Turbo Mode (requires EMTTM enabled too)

Field Name	State After G3
Default Value	[S5 State]
Possible Value	S0 State S5 State
Help	Specify what state to go to when power is re-applied after a power failure (G3 state).

Field Name	DVMT Pre-Allocated
Default Value	[64M]
Possible Value	64M
	32M/F7
	36M
	40M
	44M
	48M
	52M
	56M
	60M
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.

Field Name	DVMT Total Gfx Mem
Default Value	[256M]
Possible Value	128M
	256M MAX
Help	Select DVMT5.0 Total Graphic Memory size used by the Internal
	Graphics Device.

Field Name	Wake on LAN Enable	
Default Value	[Enabled]	
Possible Value	Enabled	
	Disabled	
Help	Enable/Disable integrated LAN to wake the system.	

Field Name	HD Audio
Default Value	[Enabled]
Possible Value	Enabled
	Disabled

Help	Control Detection of the HD-Audio device.
	Disabled = HDA will be unconditionally disabled
	Enabled = HDA will be unconditionally enabled.

Field Name	ME Update
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Temporary disable Intel CSME for ME FW Update. Enabled = Intel CSME disabled after first time reboot only.

Note: Visible in LVDS SKU.

Field Name	LVDS Interface Type
Default Value	[Disabled]
Possible Value	8 bit-VESA Single Channel
	8 bit-VESA Dual Channel
	6 bit-VESA Single Channel 6 bit-VESA Dual Channel
	8 bit-JEIDA Single Channel
	8 bit-JEIDA Dual Channel
Help	Sets LVDS connectivity.

Note: Visible when LVDS Interface Type not set to disable

Field Name	LVDS Panel Type	LVDS Panel Type	
Default Value	[1920x1080 LVDS]		
Possible Value	1024x768 LVDS		
	1366x768 LVDS		
	1920x1080 LVDS		
Help	Select LVDS panel used appropriate setup item.	Select LVDS panel used by Internal Graphics Device by selecting the appropriate setup item.	

Field Name	TPM Device Selection
Default Value	[dTPM]
Possible Value	PTT dTPM
Help	Selects TPM device: PTT or dTPM. PTT - Enables PTT in SkuMgr dTPN 1.2 - Disables PTT in SkuMgr Warning ! PTT/dTPM will be disabled and all data saved on it will be lost

2.2 CPU Configuration

Advanced	Aptio Setup – AMI	
Advanced CPU Configuration Type ID Speed L1 Data Cache L1 Instruction Cache L2 Cache L3 Cache L4 Cache VMX SMX/TXT	11th Gen Intel(R) Core(TM) i7-1185G7E @ 2.80GHz 0x806C1 2800 MHz 48 KB x 4 32 KB x 4 1280 KB x 4 12 MB N/A Supported Supported	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
	Version 2.21.1278 Copyright (C) 202:	

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Field Name	Туре
Default Value	[Intel CPU Brand String]
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ID
Default Value	Displays CPU Signature
Comment	This field is not selectable. There is no help text associated with it.

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

Field Name	L1 Data Cache
Default Value	L1 Data Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Instruction Cache
Default Value	L1 Instruction Cache Size
Comment	This field is not selectable. There is no help text associated with it.

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

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

Field Name	L4 Cache
Default Value	L4 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VMX
Default Value	VMX Supported or Not
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SMX/TXT
Default Value	SMX/TXT Supported or Not
Comment	This field is not selectable. There is no help text associated with it.

2.3 Trusted Computing

Advanced	Aptio Setup — AMI	
TPM 2.0 Device Found Firmware Version: Vendor: Security Device Support Pending operation	7.2 NTC [Enable] [None]	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.
		<pre>++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
Vensi	ion 2.21.1278 Copyright (C) 20	121 AMT

Field Name Firmware Version Default Value TPM module version. Comment This field is not selectable. There is no help text associated with it.

Field Name	Vendor
Default Value	TPM module vendor name.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Security Device Support
Default Value	[Enable]
Possible Value	Enable
	Disable

Help	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.

Field Name	Pending operation
Default Value	[None]
Possible Value	None TPM Clear
Help	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.

2.4 NCT6126D Super IO Configuration

Advanced	Aptio Setup — AMI	
NCT6126D Super IO Configuration		Set Parameters of Serial Port 1 (COMC)
Super IO Chip • Serial Port 1 Configuration • Serial Port 2 Configuration • Serial Port 3 Configuration • Serial Port 4 Configuration	NCT6126D	<pre>1 (COMC) ++: Select Screen t1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>

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Field Name	Serial Port 1 Configuration
Help	Set Parameters of Serial Port 1 (COMC)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 2 Configuration
Help	Set Parameters of Serial Port 2 (COMD)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 3 Configuration(Depend on system chassis)
Help	Set Parameters of Serial Port 3 (COME)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 4 Configuration(Depend on system chassis)
Help	Set Parameters of Serial Port 4 (COMA)
Comment	Press Enter when selected to go into the associated Sub-Menu.

2.4.1 Serial Port 1 Configuration

Advanced	Aptio Setup — AMI	
Serial Port 1 Configuration		Enable or Disable Serial Port (COM)
Serial Port Device Settings	[Enabled] IO=2E8h; IRQ=7;	(001)
Serial Port Mode	[3T/5R RS-232]	
		†↓: Select Item Enter: Select
		+/−: Change Opt. F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Reset ESC: Exit
		Loo. LAIT
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM1 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Serial Mode Configuration
Default Value	[3T/5R RS232]

Possible Value	1T/1R RS422
	3T/5R RS232
	1T/1R RS485 TX ENABLE Low Active
	1T/1R RS422 with termination resistor
	1T/1R RS485 with termination resistor TX ENABLE Low Active
	Disabled
Help	Select Serial Port Mode

2.4.2 Serial Port 2 Configuration

Advanced	Aptio Setup — AMI	
Serial Port 2 Configuration Serial Port Device Settings	[Enabled] IO=3E8h; IRQ=11;	Enable or Disable Serial Port (COM)
		<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM2 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

2.4.3 Serial Port 3 Configuration

Advanced	Aptio Setup – AMI	
Serial Port 3 Configuration Serial Port Device Settings	[Enabled] IO=2E0h; IRQ=5;	Enable or Disable Serial Port (COM)
		++: Select Screen
		t↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Versi	on 2.21.1278 Copyright (C) 2	2020 AMI

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM3 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

2.4.4 Serial Port 4 Configuration

Advanced	Aptio Setup – AMI	
Serial Port 4 Configuration		Enable or Disable Serial Port (COM)
Serial Port Device Settings	[Enabled] IO=3F8h; IRQ=4;	
		<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM4 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

2.5 Hardware Monitor

Advanced	Aptio Setup – AMI	
Pc Health Status		
DIMM Temperature CPU VR Temperature Fan Speed VBat VMem_Mon VCORE VCC3V VSB3V VCCRTC	: +7.3 % : +25.4 % : 3358 RPM : +2.976 V : +1.202 V : +1.744 V : +3.328 V : +3.312 V : +3.088 V	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
	Version 2.21.1278 Copyright (C)) 2020 AMI

Туре	Range
DIMM Temperature	70∼-40 °C
CPU VR Temperature	70∼-40 °C
Fan Speed	There are many kinds of the fan could be installed into the system, so we could only set 0 RPM for the failed fan speed, and there is also no high RPM limitation.
VBat	2.0~ 3.65V
VMem_Mon	1.15 ! 1.25V
VCORE	0~2V
VCC3V	3.13 ~ 3.65V
VSB3V	3.13 ~ 3.65V
VCCRTC	2.0 ~ 3.2V

2.6 RTC Wake Settings

Wake system from S5 [Disabled] Enable or disable System wake on alarm event. Select FixedTime, system will wake on the hr::min::sec specified. **: Select Screen **: Select Screen 11: Select Item Enter: Select */-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F3: Optimized Defaults F4: Save & Reset ESC: Exit	Advanced	aptio Setup – American Megatrends Internatio	onal, LLC.
14: Select ItemEnter: Select+/-: Change Opt.F1: General HelpF2: Previous ValuesF3: Optimized DefaultsF4: Save & Reset	Wake system from S5	[Disabled]	on alarm event. Select FixedTime, system will wake on
			t↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset

Field Name	Wake system from S5
Default Value	[Disabled]
Possible Value	Disabled Fixed Time
Help	Enable or disable System wake on alarm event, Select FixedTime, system wil wake on the hr::min::sec specified.

Field Name	Wake up hour(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-23
Help	Select 0-23 For example enter 3 for 3am and 15 for 3pm

Field Name	Wake up minute(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-59
Help	Select 0 – 59 for Minute

Field Name	Wake up second(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0 - 59
Help	Select 0 – 59 for Second

2.7 Network Stack Configuration

Aptio Setup – American Megatrends International, LLC. Advanced		
Network Stack	[Disabled]	Enable/Disable UEFI Network Stack
		<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>

Field Name	Network stack
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Enable/Disable UEFI Network stack.

Field Name	Ipv4 PXE Support (Available when Network stack Enabled)
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable/Disable Ipv4 PXE Boot Support. If disabled IPV4 PXE boot support will not be available.

Field Name	Ipv6 PXE Support (Available when Network stack Enabled)
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable Ipv6 PXE Boot Support. If disabled IPV6 PXE boot support will not be available.

2.8 NVMe Configuration

Aptio Setup – AMI Advanced	
NVMe Configuration	
No NVME Device Found	
	++: Select Screen
	†↓: Select Item Enter: Select +/−: Change Opt.
	F1: General Help F2: Previous Values
	F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	(Device)
Comment	Press Enter when selected to go into the associated Sub-Menu.

3. EVENT LOGS

Aptio Setu Main Advanced Event Logs Security Boot Sav	
▶ Change Smbios Event Log Settings ▶ View Smbios Event Log	Press <enter> to change the Smbios Event Log configuration.</enter>
	<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
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Field Name	Change <u>Smbios</u> Event Log Settings
Help	Press <enter> to change the <u>Smbios</u> Event Log configuration.</enter>
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	View Smbios Event Log
Help	Press <enter> to view the <u>Smbios</u> Event Log records.</enter>
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.1 Enabling/Disabling Options

Event Log	Aptio Setup – AMI S	
Enabling/Disabling Options Smbios Event Log	[Enabled]	Change this to enable or disable all features of Smbios
Erasing Settings Erase Event Log When Log is Full	[No] [Do Nothing]	Event Logging during boot.
		Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Smbios Event Log
Default Value	[Enable]
Possible Value	Disabled Enabled
Help	Change this to enable or disable all features of <u>Smbios</u> Event Logging during boot.

Field Name	Erase Event Log
Default Value	[No]
Possible Value	No Yes, Next reset Yes, Every reset

Help	Choose options for erasing <u>Smbios</u> Event Log.	Erasing is done prior to
	any logging activation during reset.	

Field Name	When Log is Full
Default Value	[Do Nothing]
Possible Value	Do Nothing
	Erase Immediately
Help	Choose options for reactions to a full <u>Smbios</u> Event Log.

3.2 View Smbios Event log

Ap Event Logs	tio Setup – AMI	
DATE TIME ERROR CODE SEVERITY 09/09/20 17:22:06 Smbios 0x16 N/A 09/09/20 17:22:50 EFI 03008205 Unrecogni 09/09/20 17:22:50 EFI 03008105 Unrecogni 09/09/20 17:52:50 EFI 03008105 Unrecogni 09/09/20 17:54:26 EFI 03008303 Unrecogni 09/09/20 17:54:26 EFI 03008103 Unrecogni	N/A zed 02 zed 02 zed 01	DESCRIPTION Log Area Reset and Count is applicable only for Multi-Events
		<pre> ++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
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Field Name	DATE / TIME / ERROR CODE / SEVERITY / COUNT
Default Value	MM/DD/YY HH:MM:SS Smbios 0x16 N/A N/A
Possible Value	By Events.
Help	By Events.

4. SECURITY PAGE

Aptio S Main Advanced Security	<mark>etup – American Megatrends</mark> Boot Save & Exit	International, LLC.
Password Description		Set Administrator Password
If ONLY the Administrator's then this only limits access only asked for when enterin If ONLY the User's password is a power on password and boot or enter Setup. In Set have Administrator rights. The password length must be in the following range: Minimum length Maximum length	s to Setup and is g Setup. is set, then this must be entered to up the User will	
Administrator Password User Password HDD Security Configuration:		<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults</pre>
P1:128GB SATA Flash Drive ▶ Secure Boot ▶ BIOS Update		F4: Save & Reset ESC: Exit

Field Name	Administrator Password
Help	Set Administrator Password

Field Name	User Password
Help	Set User Password.

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

Field Name	Secure Boot

Help	Secure Boot Configuration
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

4.1 HDD Security

Aptio Setup – American Megatrends International, LLC. Security		
Security HDD Password Description : Allows Access to Set, Modify and Cla Hard Disk User Password User Password is mandatory to Enable If the 'Set User Password' option is do power cycle to enable the option HDD PASSWORD CONFIGURATION: Security Supported : Security Enabled : Security Locked : Security Frozen : HDD User Pwd Status:	e HDD Security. s hidden,	<pre>**: Select Screen **: Select Screen *1: Select Item Enter: Select */-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
Van 9 94 4977 Conunight -	(C) 2020 American Megatrends	Internetional LLC

Field Name	Set User Password
Help	Set HDD User Password. *** Advisable to Power Cycle System after Setting Hard Disk Passwords ***.Discard or Save changes option in setup does not have any impac on HDD when password is set or removed. If the 'Set HDD User Password' option is hidden, do power cycle to enable the option again

4.2 Secure Boot

Aptio Setup – AMI Security			
System Mode	Setup	Secure Boot feature is Active if Secure Boot is Enabled,	
Secure Boot	[Enabled] Not Active	Platform Key(PK) is enrolled and the System is in User mode.	
Secure Boot Mode ▶ Restore Factory Keys ▶ Reset To Setup Mode	[Standard]	The mode change requires platform reset	
▶ Key Management			
		++: Select Screen	
		↑↓: Select Item Enter: Select +/-: Change Opt.	
		F1: General Help F2: Previous Values	
		F3: Optimized Defaults F4: Save & Reset ESC: Exit	

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Field Name	Secure Boot
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Secure Boot feature is Active if Secure Boot is Enabled,Platform Key(PK) is enrolled and the System is in User mode.The mode change requires platform reset
Field Name	Secure Boot Mode
Default Value	[Standard]
Possible Value	Standard
	Custom
Help	Secure Boot mode options:Standard or Custom.In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full authentication

Field Name	Restore Factory Keys (Secure Boot Mode set to Custom)
Help	Force System to User Mode. Install factory default Secure Boot key databases

Field Name	Reset to Setup Mode(After Restore Factory keys Provision)
Help	Delete all Secure Boot key databases from NVRAM

Field Name	Key Management
Help	Enables expert users to modify Secure Boot Policy variables without full authentication
Comment	Enables expert users to modify Secure Boot Policy variables without full authentication

4.2.1 Key Management(Secure Boot Mode set to Custom)

Aptio Setu Security	p – American Megatrends Internati	ional, LLC.
Vendor Keys	Valid	Install factory default Secure Boot keys after the platform
 Factory Key Provision Restore Factory Keys Reset To Setup Mode Export Secure Boot variables Enroll Efi Image Device Guard Ready Remove 'UEFI CA' from DB Restore DB defaults 	[Disabled]	reset and while the System is in Setup mode
		<pre>++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>

Field Name	Factory Key Provision
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Install factory default Secure Boot keys after the platform reset and while the System i in Setup mode

Field Name	Restore Factory Keys
Help	Force System to User Mode. Install factory default Secure Boot key databases

Field Name	Reset to Setup Mode
Help	Delete all Secure Boot key databases from NVRAM

Field Name	Export Secure Boot variables
Help	Copy NVRAM content of Secure Boot variables to files in a root folder on a file system device

Field Name	Enroll Efi Image
Help	Allow the image to run in Secure Boot mode. Enroll SHA256 Hash certificate of a PE image into Authorized Signature Database (db)

Field Name	Remove 'UEFI CA' from DB
Help	Device Guard ready system must not list 'Microsoft UEFI CA' Certificate in Authorized Signature database (db)

Field Name	Restore DB defaults
Help	Restore DB variable to factory defaults

Field Name	Platform Key (PK)
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHAXXX
	2.Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu "Key Management".

Field Name	Key Exchange Keys	
Default Value	Size:0, Keys:0, Key source: No Keys	
Help	Enroll Factory Defaults or load certificates from a file:	
	1.Public Key Certificate:	
	a)EFI_SIGNATURE_LIST	
	b)EFI_CERT_X509 (DER)	
	c)EFI_CERT_RSA2048 (bin)	
	d)EFI_CERT_SHAXXX	
	2.Authenticated UEFI Variable	
	3.EFI PE/COFF Image(SHA256)	
	Key Source:	
	Factory,External,Mixed	
comment	Press Enter when selected to go into the associated Sub-Menu.	

Field Name	Authorized Signatures
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHAXXX
	2.Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Forbidden Signatures
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file:

	1.Public Key Certificate:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHAXXX
	2.Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Authorized TimeStamps
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER)
	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHAXXX
	2.Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	OsRecovery Signatures
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file:
	1.Public Key Certificate:
	a)EFI_SIGNATURE_LIST
	b)EFI_CERT_X509 (DER)

	c)EFI_CERT_RSA2048 (bin)
	d)EFI_CERT_SHAXXX
	2.Authenticated UEFI Variable
	3.EFI PE/COFF Image(SHA256)
	Key Source:
	Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

4.3 BIOS Update

Aptio Setup – American Megatrends Internatio Security	onal, LLC.
	Enter the path to the BIOS update option ++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Path for ROM Image
Help	Enter the path to the BIOS update option

5. BOOT PAGE

Aptio Setup – AMI Main Advanced Chipset Event Logs Security <mark>Boot</mark> Save & Exit		
Boot Configuration Setup Prompt Timeout Bootup NumLock State	<mark>1</mark> [Off]	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
FIXED BOOT ORDER Priorities Boot Option #1 Boot Option #2 Boot Option #3 Boot Option #4	[USB Floppy] [USB CD/DVD] [Hard Disk] [USB Key:UEFI: USB FLASH DRIVE PMAP, Partition 1]	
Boot Option #5 Boot Option #6 Boot Option #7 ▶ UEFI USB Key Drive BBS Priorities	[USB Hard Disk] [NVME] [Network]	<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>
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Field Name	Setup Prompt Timeout
Default Value	1
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	[Off]
Possible Value	On Off
Help	Select the keyboard NumLock state

Field Name	Boot Option #1
Default Value	[USB Floppy]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Help	Sets the system boot order

Field Name	Boot Option #2
Default Value	[USB CD/DVD]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Help	Sets the system boot order

Field Name	Boot Option #3
Default Value	[Hard Disk]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Help	Sets the system boot order

Field Name	Boot Option #4
Default Value	[USB Key]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Help	Sets the system boot order

Field Name	Boot Option #5
Default Value	[USB Hard Disk]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Help	Sets the system boot order

Field Name	Boot Option #6
Default Value	[NVME]

Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Help	Sets the system boot order

Field Name	Boot Option #7
Default Value	[Network]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Help	Sets the system boot order

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

Field Name	(UEFI) USB CDROM/DVD ROM Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available USB CDROM/DVD Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

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

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

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

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

5.1 (List Boot Device Type) Drive BBS Priorities
Aptio Setup – American Megatrends International, LLC.

Aptic	o Setup – American Megatrends Internat Boot	ional, LLC.
Boot Option #1	[Windows Boot Manager (128GB SATA Flash Drive)]	Sets the system boot order **: Select Screen *J: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Boot Option #1
Default Value	
Possible Value	Boot Device Name 1 of this type, Disable
Help	Sets the system boot order

6. SAVE & EXIT PAGE

Aptio Setup – American Megatrends Into Main Advanced Security Boot Save & Exit	ernational, LLC.
Save Changes and Reset Discard Changes and Reset Restore Defaults	Reset the system after saving the changes.
	<pre> ++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</pre>

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

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

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