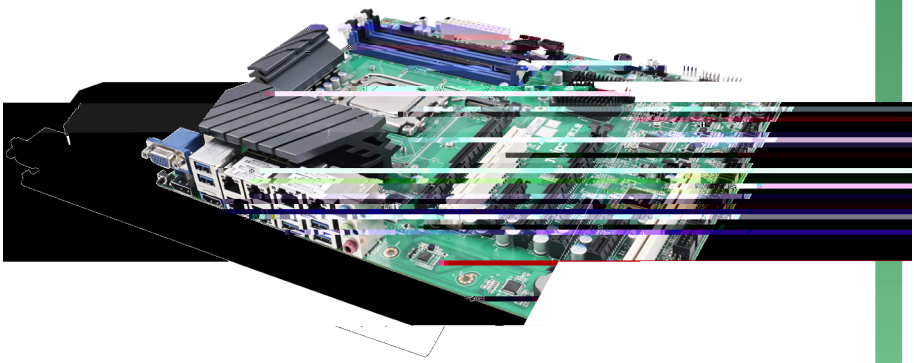
SIM0-7450



Version 1.0

5 WDT 32
5.1 wdt 32
6 GPIO 33
6.1 GPIO 33
1 34
2 35

1

1.1

G

h h

G

X 1

X 1

SATA X1

COM X2

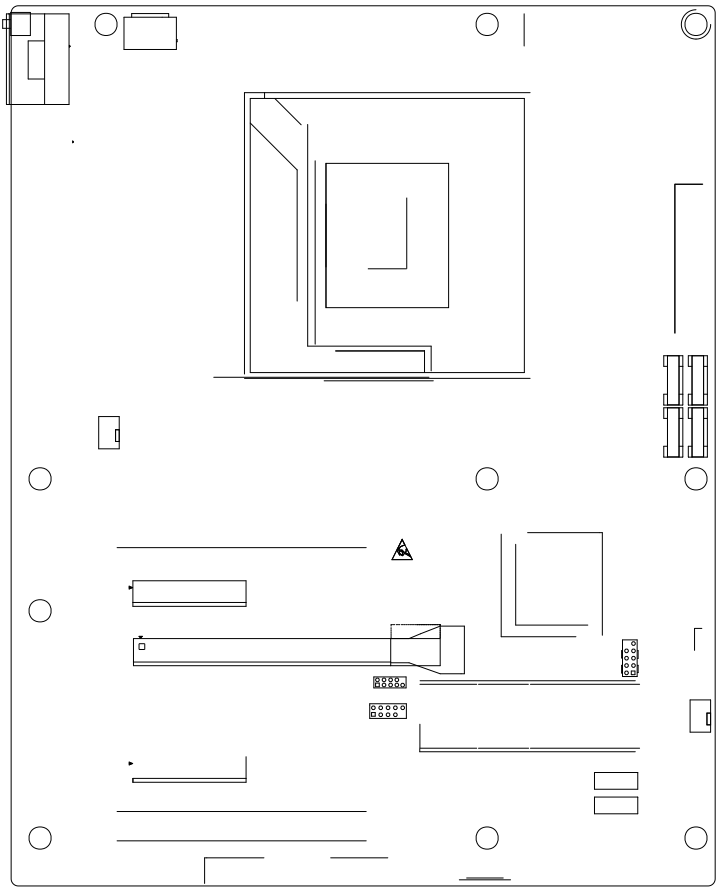


1.2

	- Intel® 12/13/14th Generation Core i3/i5/i7/i9, Pentium®, Celeron CPU, LGA1700 h i5 CPU vPro
	- Intel® Q670
	- 4 × 288PIN DDR4-UDIMM , 48GB 192GB CPU DDR4-2133/2400/2666/2933/3200
	- Intel CPU (CPU)
	- VGA+DP+HDMI, - 1 VGA 1920*1080@60Hz - 1 HDMI 3840*2160@30Hz - 1 DP 5120*2160@60Hz
	- 4 SATA3.0 SATA Raid 0/1/5/10 1 M.2 Key-M 2280 nVME x4 SSD - 1 M 2242/2280 NVME SSD
	- IO MIC-In, Speaker-Out, Line-In h F_Audio
	-LAN1: i219-LM , LAN2~6: i210AT
USB	- IO 6 USB3.0 Type A, 2 USB2.0 Type A - 6 USB2.0 2.54mm
	- 6 - COM1&2 RS232/485,COM3-6 RS232
I/O	- I/O 16 I/O h h +5V Ÿ Option ÿ
TPM	- SLB9670 h TPM2.0 Ÿ Option ÿ
	- ATX h ATX/AT h
	- 2 PCIe4.0 x16 Ÿ x8 ÿ - 2 PCIe4.0 x4 - 1 PCIe3.0 x1 - 2 PCI Ÿ 32bit ÿ
	- 0œ‘ 60œ h 0%‘ 90% h h 85~105kPa

1.3





2

2.1

h ч

1. g
2. h g
3. h h h g

:

1. h AC g
2. h g
3. h Ь
4. 30 h h d d ,
   h g Ў ч h h ў
5. h DIMM h g

ў ў ч

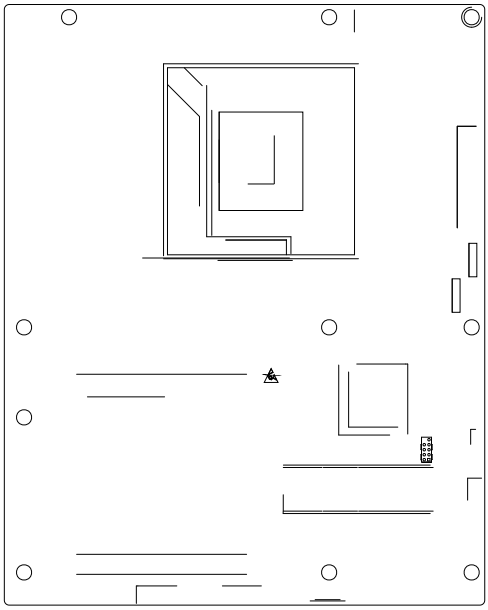






ч h h
h g

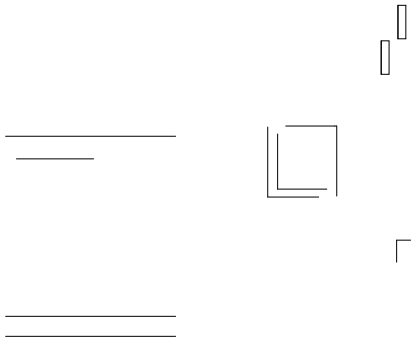
2.3.3 DIMM



4 DDR4 UDIMM h
48GB 192GB
CPU DDR4-
2133/2400/2666/2933/3200

2.3.4 PCI/PCIE

2	PCIe4.0 x16	(x8)
2	PCIe4.0 x4	
1	PCIe3.0 x1	
2	PCI	(32bit)



3 &

3.1

2 ч Ÿ ÿ ɢ

ÿ ɢ

3 ч 1 2 2 3 Ÿ ÿ ɢ



SHORT OPEN OPEN Pin1~2 SHORT Pin2~3 SHORT

1 Ƃ

1. h "1" 1 ɢ
2. h ɢ

3.2

JME1

1-2	Disable ME
2-3	NORMAL

JC7

1-2	CONNECT
2-3	DISCONNECT

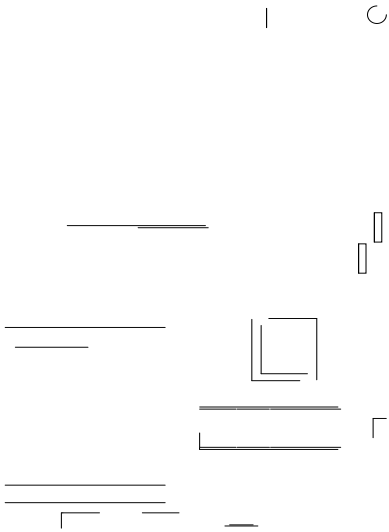
CLR_COMS1 2-3
BIOS

1-2	NORMAL
2-3	CLEAR COMS

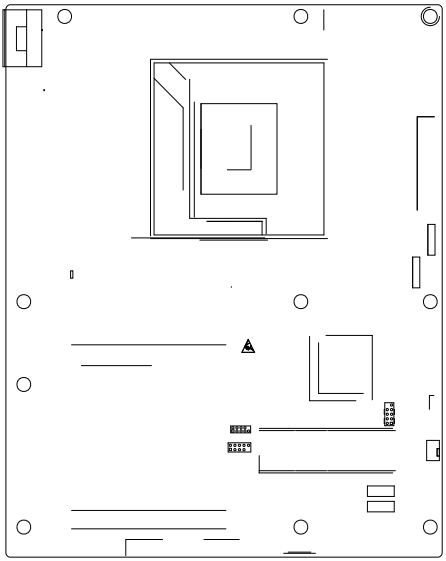
ATX-M1 1-2

1-2	ATX MODE
2-3	AT MODE

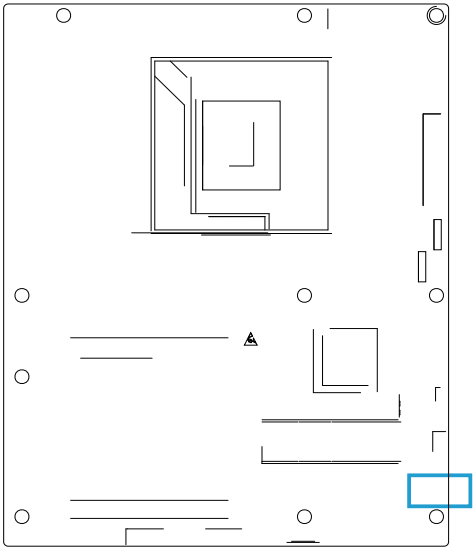
3.3 ATXPWR



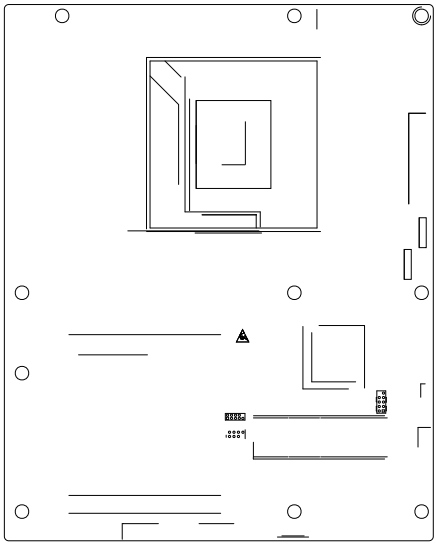
3.7 J1/J2/J3/J4



3.9 F_USB1/F_USB2/F_USB3



3.11 FPANEL1/FPANEL2



4 BIOS

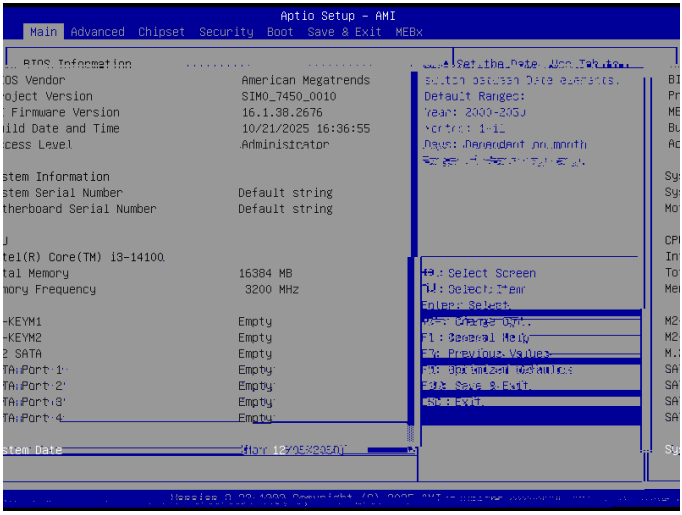
4.1 BIOS

AMI BIOS ɢ BIOS Basic Input Output System(ÿ ɢ
ROM Ÿ Read-Only Memory) ɢ h BIOS
h ч
a. h POST(Power On Self Test) ɢ
b. ɢ
c. Hʊ ɢ
`2 ɢ. @6 SEJ-27 G a *ƒ*–ɑW }#Rië$ Ro j
BIOS CMOS RAM h
ɢ h h BIOS ɢ CMOS h

4.3 BIOS

Main		BIOS
Advanced		BIOS
Chipset		
Security		
Boot		
Save & Exit		BIOS
MEBx	BIOS	Intel

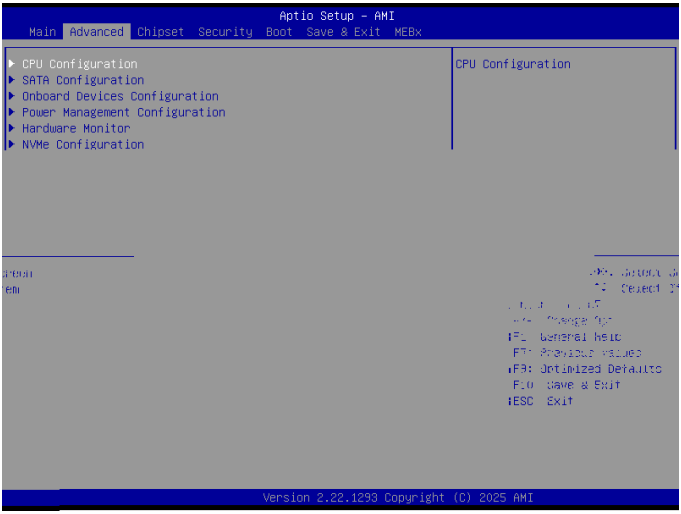
4.4 Main



- System Date ( )

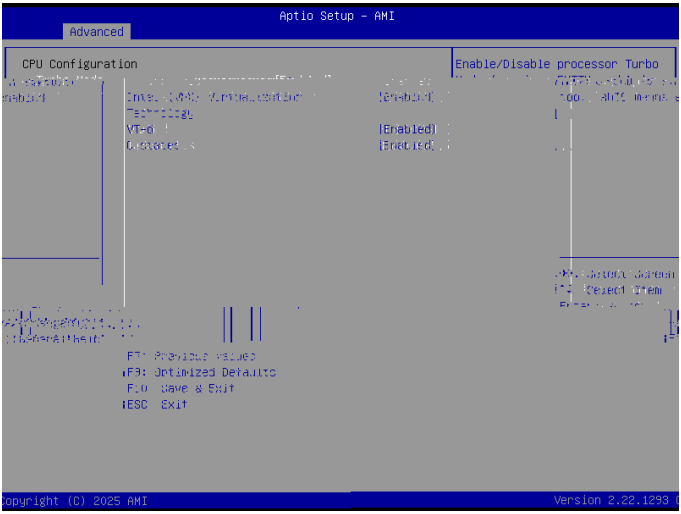
, d h / / d G

4.5 Advanced



CPU Conżguration	CPU	
SATA Conżguration	SATA	
Onboard Devices Conżguration		
Power Management Conżguration		
Hardware Monitor		
NVEM Conżguration	NVEME	

CPU Con f guration <Enter>



Turbo Mode

/ turbo G

ч Enabled,Disabled.

- Intel(VMX) Virtualization Technology

  Intel Ÿ VMX ÿ G

  ч Enabled,Disabled.

- VT-d

  / VT-d G

  ч Enabled,Disabled.

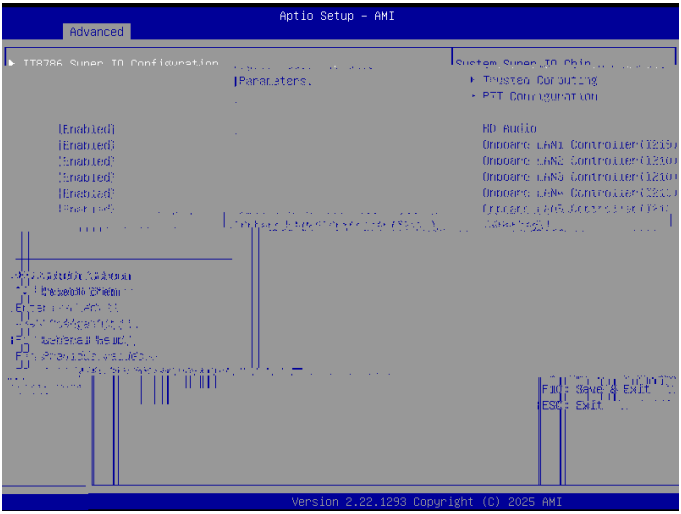
- C states

  / CPU G

  ч Enabled,Disabled.

- <Esc> d Advanced d

Onboard Devices Con f guration <Enter>



- HD Audio

  G

  ↯ Enabled,Disabled.
- Onboard LAN1 Controller I219

  G

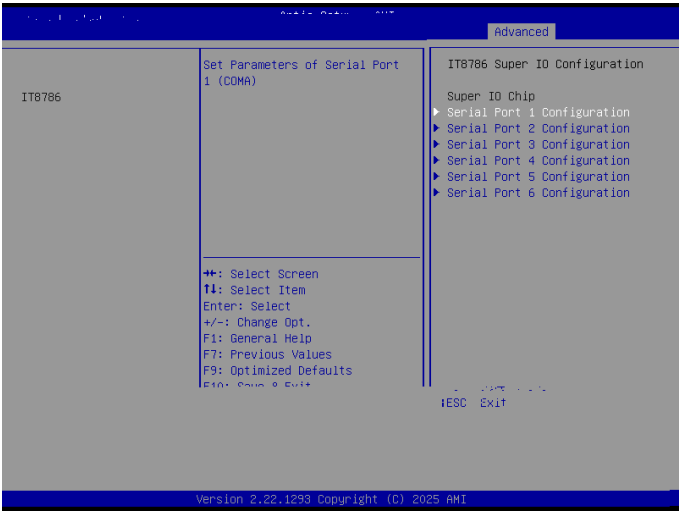
  ↯ Enabled,Disabled.
- Onboard LAN2/3/4/5/6 Controller I210

  G

  ↯ Enabled,Disabled.

- <Esc> d Advanced d

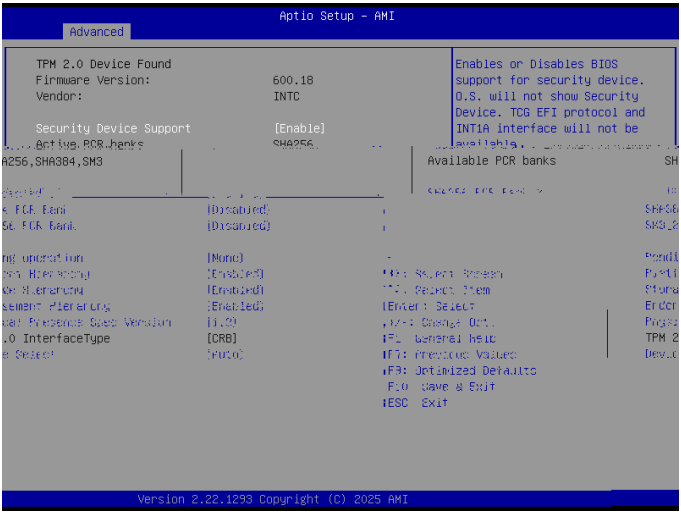
IT8786 Super IO Con f guration <Enter>



- Serial Port1/2/3/4/5/6 Con f guration
  G

- <Esc> d Onboard Devices Conžguration d G

Trusted Conputing <Enter>



Security Device Support

G ↳ Disable,Enable.

SHA256 PCR Bank

SHA256 PCR Bank G ↳ Disabled,Enabled.

SHA384 PCR Bank

SHA384 PCR Bank G ↳ Disabled,Enabled.

SM3_256 PCR Bank

SM3_256 PCR Bank G ↳ Disabled,Enabled.

Pending operation

G ↳ None,TPM Clear.

Platform Hierarchy

G ↳ Disabled,Enabled.

Storage Hierarchy

G ↳ Disabled,Enabled.

Endorsement Hierarchy

G ↳ Disabled,Enabled.

Physical Presence Spec Version

h PPI 1.2 1.3 G ↳ 1.2,1.3.

Device Select

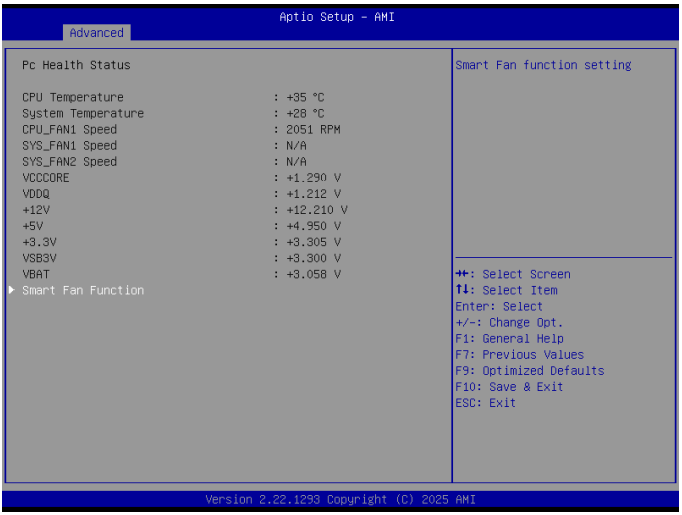
TPM 1.2 TPM 1.2 h TPM 2.0 TPM G ↳ TPM 1.2,TPM 2.0,Auto.

- <Esc> d Onboard Devices Conžguration d G

PTT Con f guration <Enter>



Hardware Monitor <Enter>

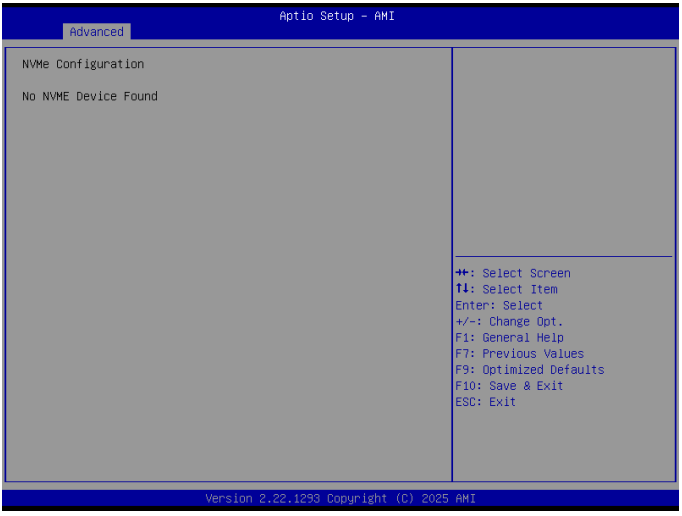


- Smart Fan Function

  G

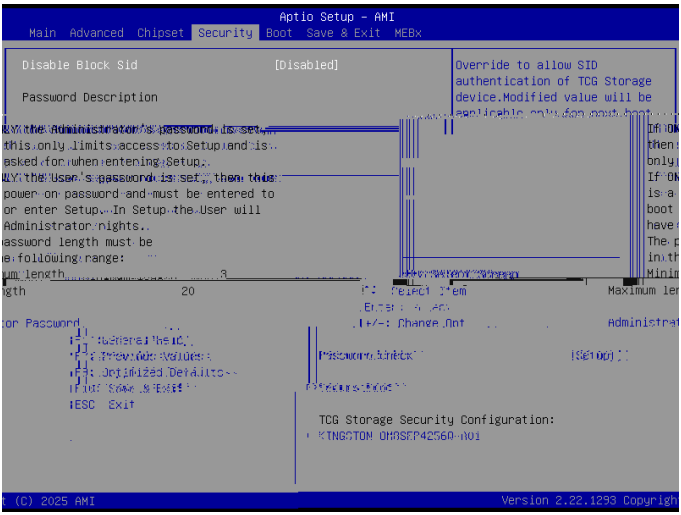
- <Esc> ⊿Advanced⊿

NVMe Con f guration <Enter>



- <Esc> ⊿Advanced⊿

4.7 Security

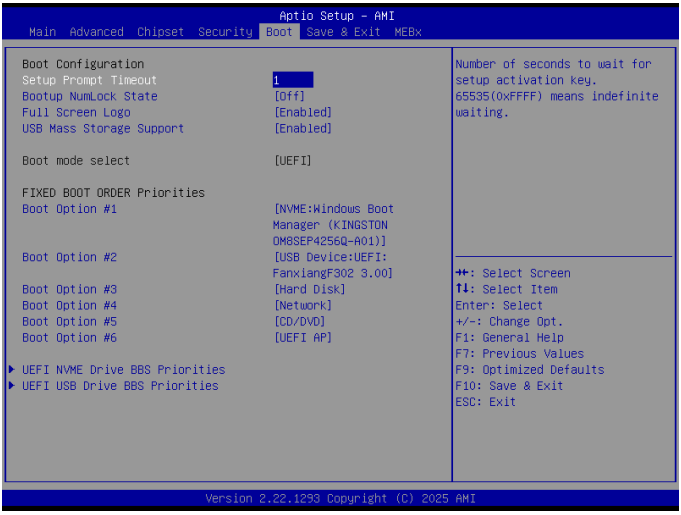


Administrator Password

h ч

1. Administrator Password h <Enter> G
2. d Create New Password d 3~20 h <Enter> h d Conžrm Password d h G d Invalid Password! d h h G h d Administrator Password d h d Enter Current Password d h d Create New Password d <Enter> G

4.8 Boot



Setup Prompt Timeout

G

Bootup NumLock State

h Numlock G On h NumLock h

G Oϸ h Numlock h G

ч On,Oϸ.

Full Screen Logo

Logo G

ч Enabled,Disabled.

USB Mass Storage Driver Support

USB G

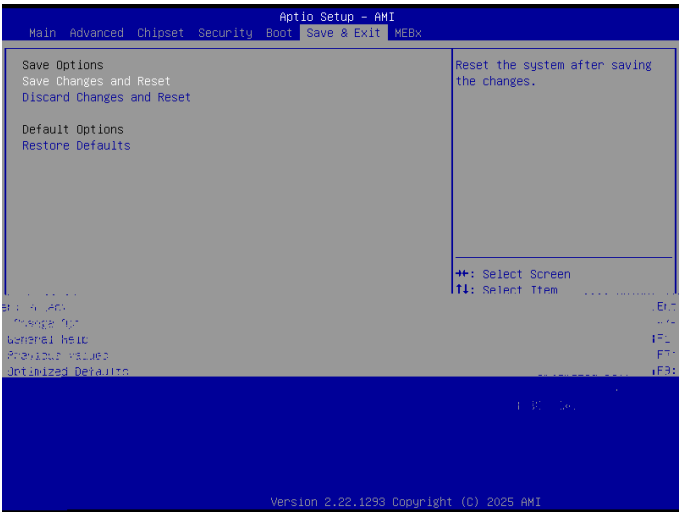
ч Enabled,Disabled.

Boot Option #1-6

G

ч NVME,USB Device

4.9 Save & Exit



Save Changes and Reset

G

Discard changes and Reset

G

Restore Defaults

G

4.10 MEBx



Intel(R) ME Password

MEBx G

- <Esc> d MEBx d

					USB3	USB2	COM	LAN	PCI	PCIe
SIM0-7450	Q670	4 DDR4	3(3)	4 SATA	6	8	6	6	2	5

产品中有害物质的名称及含量的信息表

