User's Manual

H125

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Preface

Before using this information and the product it supports, please read the following general information.

This service manual provides you with all technical information relating to the BASIC CONFIGURATION decided for "global" product offering. To better fit local market requirements and enhance product competitivensess, your regional o f ce may have decided to extend the functionality of a machine (e.g.add-on-card,modem or extra memory capability). These LOCALIZED FEATURES will Not be covered in this generic service manual. In such cases, please contact your regional o f ces or the responsible personnal channel to provide you with further technical details.

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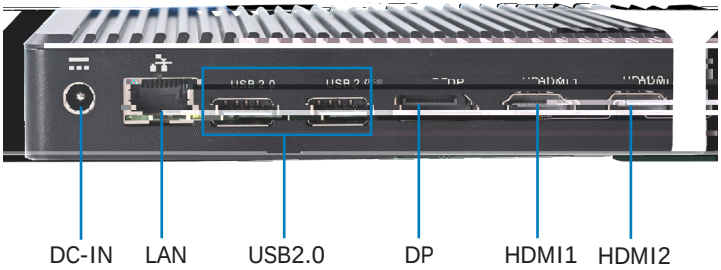
Chapter 1 System Specifications

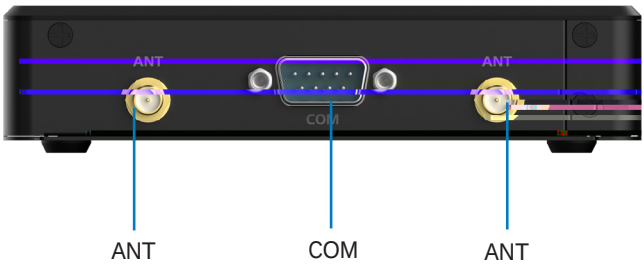
1-1. Product Configuration

Processor	- Intel® Processor N100 /N150, TDP=6W
Graphics	- Intel UHD Graphics
Memory	- Single SO-DIMM DDR4, Max 16GB
Storage	- 1 x M.2 Key M 2280 PCIE/SATA SSD - 1 x EMMC 64GB Optional
Ethernet	- 1x RJ45, 10/100/1000Mbps (LAN IC: RTL8111H)
Wireless	- 1 x M.2 Key E Mini PCIe/USB2.0 or CNVI
Wireless Type	- AW-CB231NF / Intel AX101 Wi-Fi
Front IO interface	- 1 x Power Button with Blue Led - 1 x Reset Button - 1 x HDD LED - 1 x USB3.2 Gen 2 Type-A - 1 x USB3.2 Gen 1 Type-A - 1 x Type-C (USB3.2 Gen 1) - 2 x 3.5mm Audio Jack: 1 x Line_out, 1 x MIC_in
Rear IO interface	- 1 x DC-IN - 1 x RJ45 - 2 x USB2.0 Type-A - 1 x DP-Out 4K @60Hz - 2 x HDMI-Out 4K @60Hz
Right IO interface	- 1 x Kensington Lock - 2 x ANTS
Left IO interface	- 2 x ANTS - 1 x COM1 RS232 /RS485 (Optional)
WatchDog	- Support
Power input	- 12V-19V DC IN, 2.5/5.5 DC Jack
Environmental requirement	- Operating temperature: -5~45

1.2.3 View of I/O Back Panel



1.2.4 View of I/O Left Panel



(The picture is for reference only)

1.2.5 View of I/O Right Panel

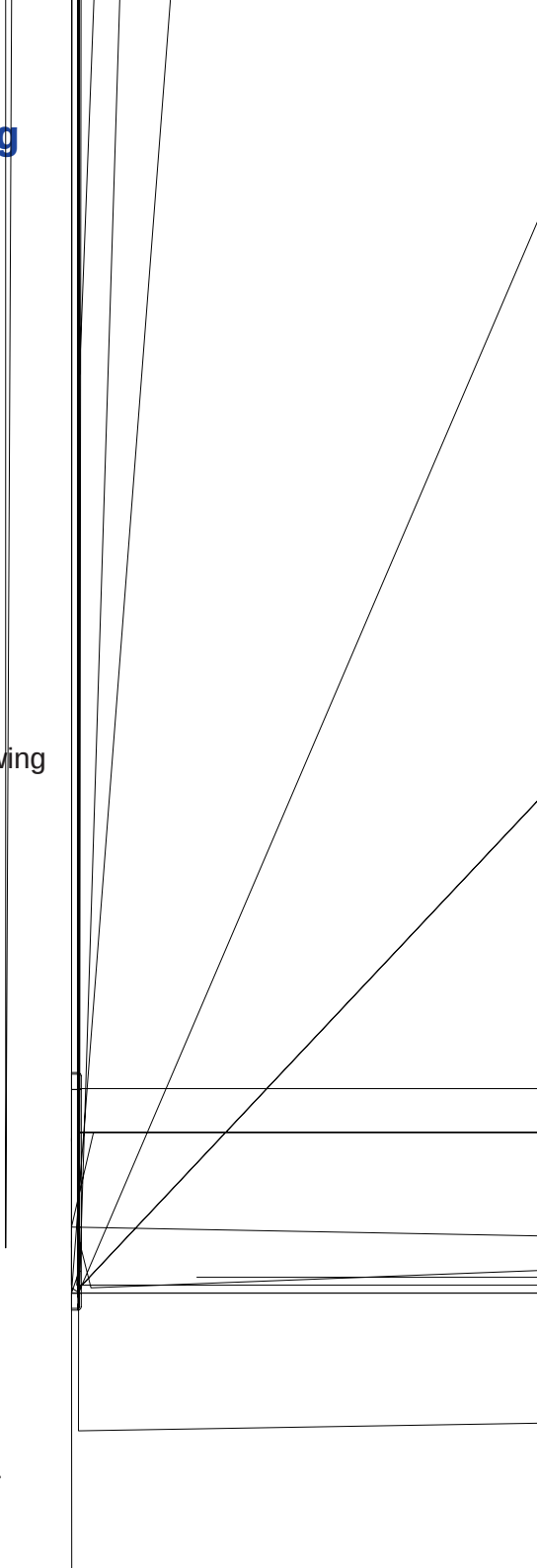
- Power Button: Pressing the power button, the machine is turned on
- HDD_LED: Hard Disk Drive Indicator Light
- USB3.2: USB3.2 connector
- TYPE-C: TYPE-C connector
- LINE_OUT: Audio output interfacet
- MIC_IN: Microphone Input
- Reset Button: Restart Button
- DC-IN: DC power interface
- LAN: RJ45 network connector
- USB 2.0: USB 2.0 connector, backwards compatibility USB 1.1
- HDMI: High-definition multimedia display interface
- DP: DP display interface
- ANT: WiFi antenna
- COM: RS232/RS485 Serial port interface(Optional)
- Kensington Lock: Security Lock

(The picture is for reference only)

1-3. Dimension Drawing

1.3.1 Product Dimension Drawing

1.3.2 Wall-mounted Dimension Drawing



2-2. Interface definition

2.2.1 JBIOS Interface

Pin	Definition
1	VCC
2	VCC
3	MISO
4	MOSI
5	CS
6	CLK
7	GND
8	IO2
9	IO3

2.2.2 JC2 Interface

Pin	Definition	Note
1	NDCD_1_232	COM port with 5V power 1-2:No power (default) 2-3:With 5V power
2	COM2_P1	
3	+5V	

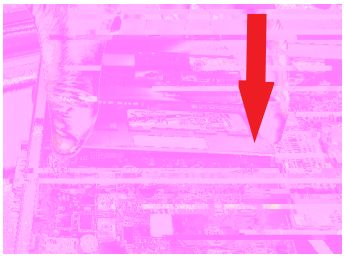
2.2.3 ATX-M1 Interface

Pin	Definition	Note
1	ATX	HW supports call power on ATX MODE:1-2 (default call does not power on) AT MODE: 2-3 (call power on)
2	RSMRST	
3	AT	

Chapter 3 Hardware installation

3-1. Install memory

Memory installation icon:



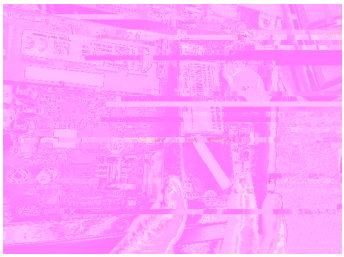
3-2. Install hard disk、wif、4G/5G module

Install the hard disk ,WIFI and 4G/5G module:

1. Turn of f the power and disconnect the AC power cord before installing or removing the hard disk, WIFI and 4G/5G module.

2. When installing, insert the card 30 degrees obliquely, then press it down to the stud and secure it with the screw.

Hard disk, WIFI and 4G/5G module installation diagram:



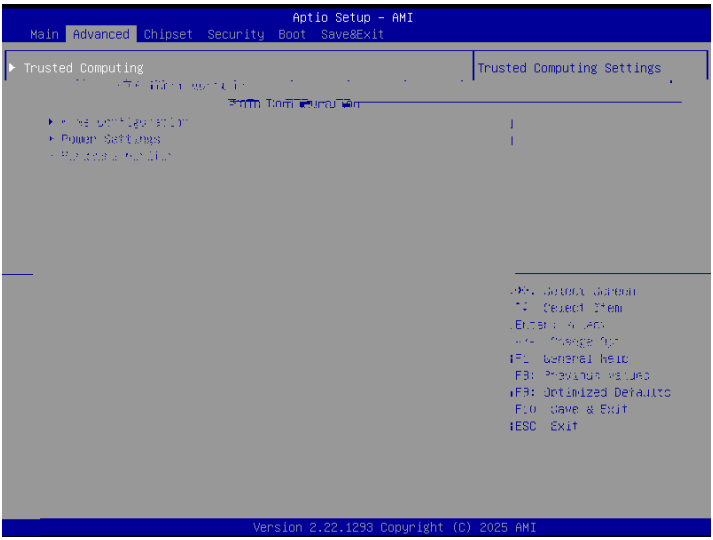
Chapter 4 BIOS Setup Utilities

4-1. Main

- **System Date**
  Set the date of the computer in the format "Week, Month/Day/year".

  System Time
  The time format is < hour >< minute >< second >.

4-2. Advanced

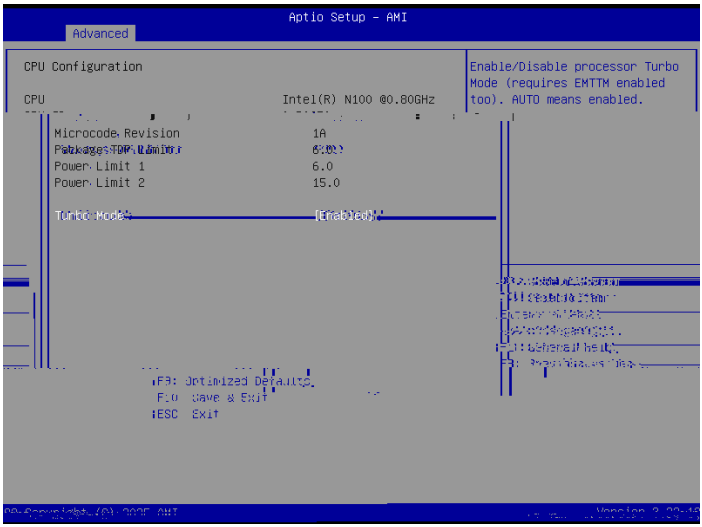


Identifcation	Annotation
Trusted Computing	Submenu selection is available
CPU Confguration	Submenu selection is available
SATA Confguration	Submenu selection is available
NVMe Confguration	Submenu selection is available
Power Settings	Submenu selection is available
Hardware Monitor	Submenu selection is available

▸ **Trusted Computing** Press <Enter> to enter the submenu.

- **Security Device Support**
  Enables or Disables BIOS support for security device. Optional:Enable,Disable.
- **SHA256 PCR Bank**
  Enable or disable SHA256 PCR Bank. Optional:Enable,Disable.
- **SHA384 PCR Bank**
  Enable or disable SHA384 PCR Bank. Optional:Enable,Disable.
- **SM3_256 PCR Bank**
  Enable or disable SM3_256 PCR Bank. Optional:Enable,Disable.
- **Pending operation**
  Schedule an Operation for the Security Device. Optional:None,TPM Clear.
- **Platform Hierarchy**
  Enable or disable platform hierarchy. Optional: Enabled,Disabled.
- **Storage Hierarchy**
  Enable or disable storage hierarchy. Optional: Enabled,Disabled.
- **Endorsement Hierarchy**
  Enable or disable the endorsement hierarchy. Optional: Enabled,Disabled.
- **Physical Presence Spec Version**
  Select to Tell o.s. to support PPI Spec Version. Optional:1.2,1.3.
- •

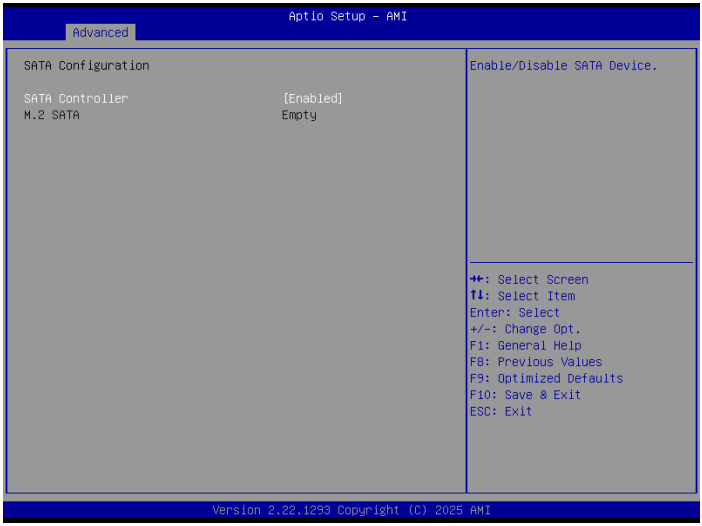
▸ **CPU Configuration** Press <Enter> to enter the submenu.



- **Turbo Mode**
  Set processor Turbo mode. Optional: Disabled,Enabled.

  Press <Esc>key returns to the “Advanced” interface

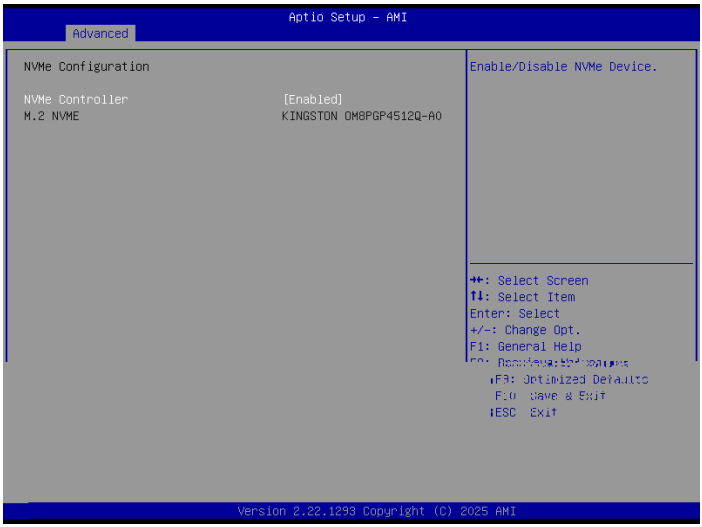
▸ **SATA Configuration** Press <Enter> to enter the submenu.



- **SATA Controller**
  This item is to disable or enable SATA controllers. Optional: Enabled,Disabled.

  Press <Esc>key returns to the “Advanced” interface

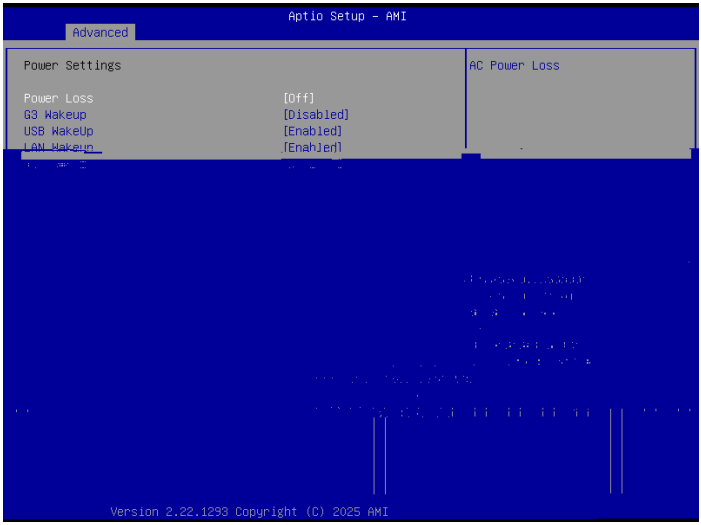
▸ **NVME Configuration** Press <Enter> to enter the submenu.



- **NVME Controller**
  This item is to disable or enable NVME controllers. Optional: Enabled,Disabled.

  Press <Esc>key returns to the “Advanced” interface

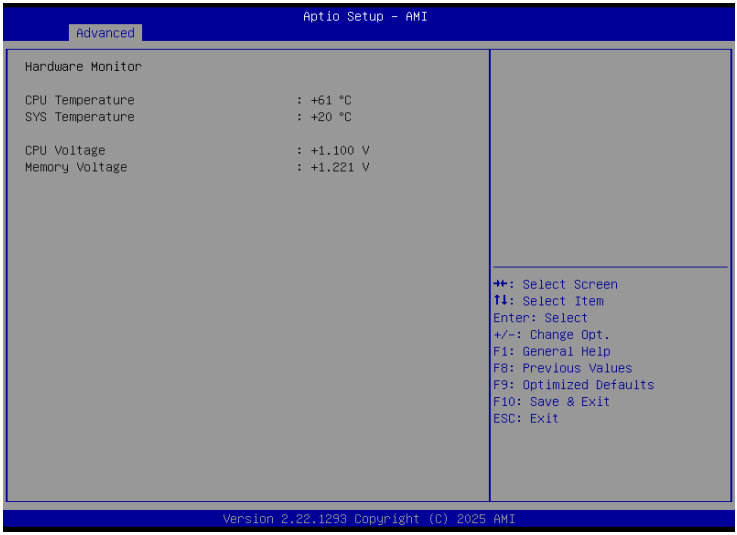
- **Power Configuration** Press <Enter> to enter the submenu.



- **Power Loss**
  This is the AC power status setting.
  This option is for automatically power on when AC plugged-In.
  Optional: Off,On,Last State.
- **G3 Wakeup**
  Enable or disable G3 wake-up function.
  Optional: Enabled,Disabled.
- **USB Wakeup**
  Enable or disable USB to wake up the device.
  Optional: Enabled,Disabled.
- **LAN Wakeup**
  Enable or disable the onboard network card wake-up function.
  Optional: Enabled,Disabled.
- **RTC Wakeup**
  This is the RTC wake-up setting.
  Optional: Disabled,Fixed Time,Dynamic Time.

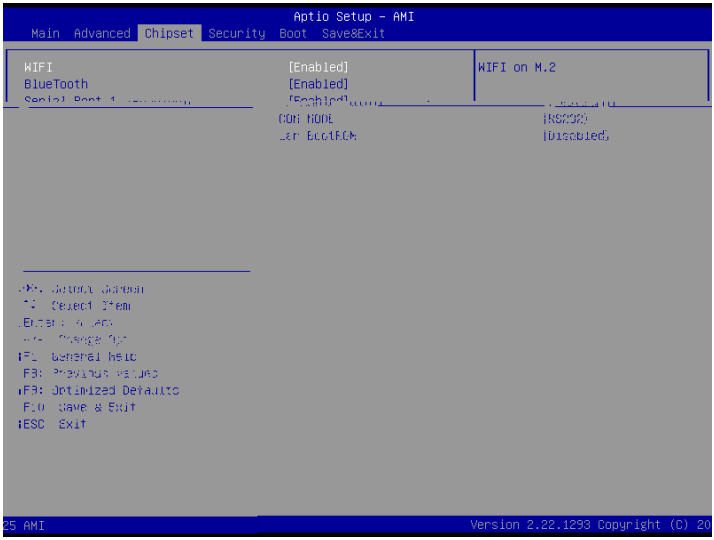
Press <Esc>key returns to the “Advanced” interface

- **Hardware Health Status** Press <Enter> to enter the submenu.



Press <Esc>key returns to the “Advanced” interface

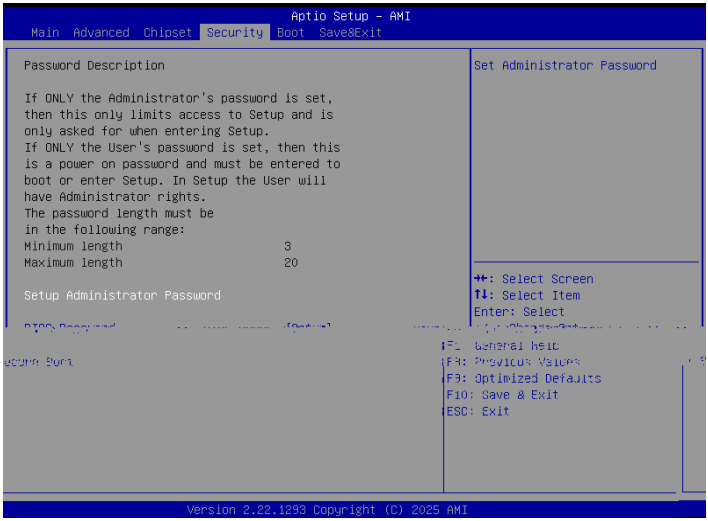
4-3. Chipset



- **WIFI**
  Enable or disable WIFI. Optional: Disabled, Enabled.
- **BlueTooth**
  Enable or disable Bluetooth. Options: Disabled, Enabled.
- **Serial Port1**
  Enable or disable serial port 1. Options: Disabled, Enabled.
- **COM MODE**
  Select serial Port Mode. Optional:RS232, RS485.
- **Lan BootROM**
  Enable or disable the network boot program. Optional: Disabled, Enabled.

Press <Esc>key returns to the “Chipset” interface

4-4. Security



- **Set Administrator Password**
  Set Administrator Password.
- **Secure Boot**
  Secure Boot Configuration.

  Press <Esc>key returns to the “Security” interface

4-6. Save & Exit

- **Save Changes and Reset**
  Reset the system after saving the changes.
- **Discard Changes and Reset**
  Reset system setup without saving any changes.
- **Restore Defaults**
  Restore/Load Default values for all the setup options.

Press <Esc>key returns to the “Save & Exit” interface