Product manuals

KC12 MINI PC

Safety Warning:

To avoid the risk of fire, electric shock, and personal injury, basic safety precautions should be followed when using this computer, including the following:

1. Read these guidance notes carefully before using the computer;
2. Place this computer on a smooth countertop prior to setup;
3. Keep the computer away from heat, humidity and dust；
4. Do not hit or drop the computer to avoid damage；
5. Do not spill any liquid on the computer to avoid damaging it or causing it to burn;
6. Do not clog computer vents or other open slots；
7. Unplug the computer if it will not be used for a long time;
8. Do not disassemble the computer by yourself. For safety reasons, have it done by a professional.

Thanks for your support and happy using!

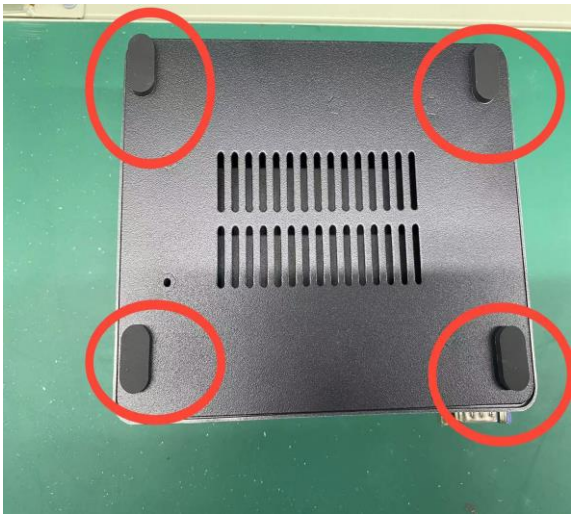
This product is not sold with a power adapter, if consumers use a power adapter to supply power, they should buy the supporting use of CCC certification and meet the requirements of the power adapter.

Product Specifications

Processor Specifications		
CPU	Intel Alder Lake Core i7-1270P I7-1280-P TDP： 28W Intel Core i7-12700H I7-12900H TDP： 45W	
CPU Platform	Intel Alder Lake 12th gen CPU	
Graphics Cards	Intel® Iris® Xe Graphics Support 4-display	
Memory		
Memory Type	DDR4 2133MHz/2400MHz/2666MHz/3200MHZ	
Memory Slot	2 × DDR4 SO-DIMM up to 64GB	
Expansion Slots		
WiFi Slot	1×M.2 2230 slot（support WIFI/BT） WIFI:802.11 b/g/n/AC/AX Bluetooth 4.0 or above	
SSD Slot	1×M.2 2280 slot（support SATA/NVME Gen3 X4） 1×M.2 2280 slot（NVME PCIE GEN4 X4 ）	
HDD	1×SATA HDD 2.5inch (Available)	
Front Panel		
Power-on button	1×Power Button	
Thunderbolt	1×Thunderbolt4（Compatible with PD power supply）	
USB Interface	4×USB3.2 Gen1	
Audio Interface	1×3.5mm earphone 1×3.5mm MIC in	
Rear Panel		
Power port	1×DC Jack 5.5*2.5mm (12-19V)	
Lan slot	2×RJ45 2500M	
Display Interface	2×HDMI Out 2.0 4K 60HZ 1×DP 1.4 1×Type-C Thunderbolt 4	
USB Slot	2×USB2.0	
Other parameters		
Dimension	175×128×46mm	
Power adapter	12V-19V 90W， Type-C support PD Battery charger， 96W above	
BIOS support	AMI UEFI BIOS， support PXE， WOL	
	Working Environment	Temperature: -10～50℃ Humidity: 5%~95%
	Storage environment	Temperature: -20~80℃ Humidity: 5%~95%

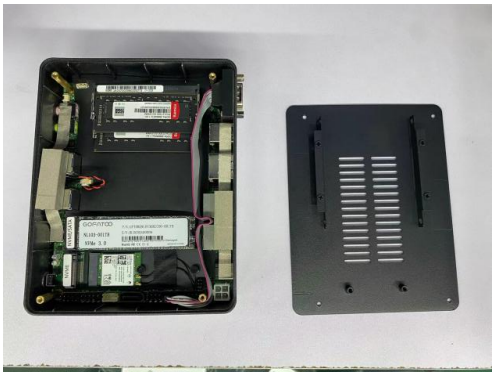
Interface Description

How to add RAM and replace SSD



1.To remove the bottom case, first remove the four foot cover.

2.Use a screwdriver to unscrew the screws to open the bottom case.



3.after open the bottom case, you will see inside slot for RAM SSD and header on the motherboard

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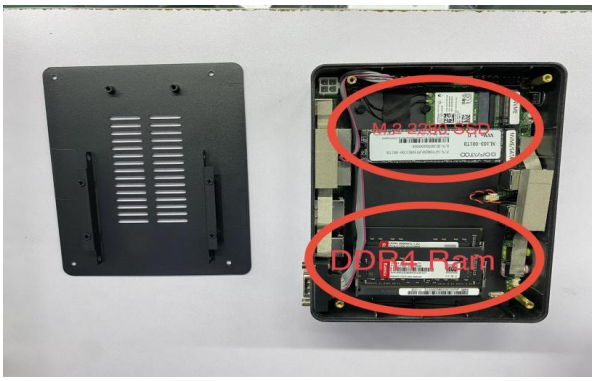
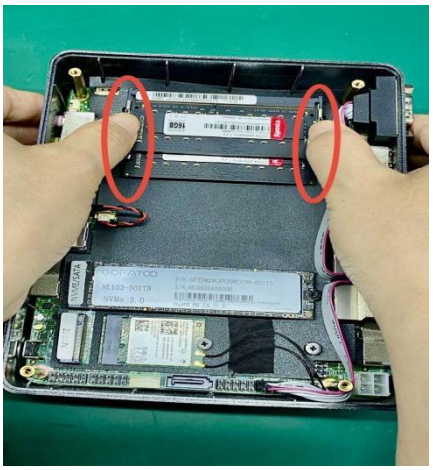


4.The memory and SSD are installed in the locations shown in the photos. SSD support 2 slot for NVME/SSD & ONLY NVME SSD



5. Adding or replacing memory.

6.If you want to replace the SSD, please remove the screws first.

7. when close the bottom case, please pay attention the direction as picture show

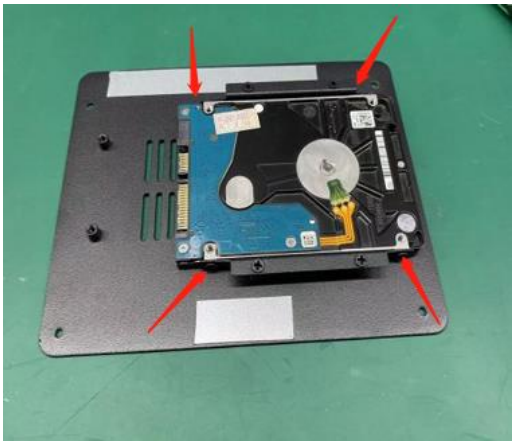
Attention

1.The memory standard for this computer is SO-DIMM DDR4 and the SSD standard is M.2 2280 SSD.
2.You can also add a 7mm 2.5" hard drive to this computer.

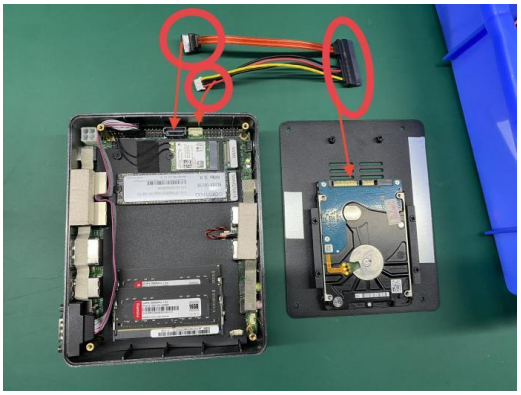
How to install a 2.5inch hard drive

1.Hard drive size is 7mm 2.5 inches

2. Align the drive with the bracket screw holes.



3.Tighten the screws on both sides. (Four in total)



4.Connect the hard drive to the motherboard connectors with the attached special SATA cable and SATA power cable.

BIOS Setup

3.1 BIOS Instruction

This motherboard uses AMI BIOS, which is known as Basic Input Output System(Basic input/output system). It is stored in a chip on the motherboard of your computer. When you turn on your computer, BIOS is the first program to run, and it has the following main functions:

A、Power On Self Test (POST), the function is to check if the computer is good.

B、Initialize and detect some external devices and load and run your operating system.

C、Provides the lowest, most basic level of control over your computer hardware.

D、Manage your computer through SETUP in BIOS.

BIOS data is stored in a CMOSRO RAM chip on the motherboard, maintained by a 3.3V coin cell battery, which contains important information about the system and the setup program for setting system parameters - the BIOS Setup program. When the system is running normally, the BIOS does not need to be modified, and when the CMOS data is lost due to other reasons, the BIOS needs to be reset.

Attention:

Improper BIOS settings can directly damage your computer's hardware and even burn your motherboard, so it is recommended that those unfamiliar with the settings be careful to modify them. Due to the BIOS in the motherboard constantly upgraded, this manual in the relevant BIOS information for reference only.Therefore, the BIOS information in this manual is not guaranteed to be consistent with the information in the actual BIOS of the motherboard information.

3.2 BIOS Settings

Press F2 to enter BIOS Setup

Press F7 to enter the Boot menu

Press <Enter> to select and use Page Up and Page Down to change the options.

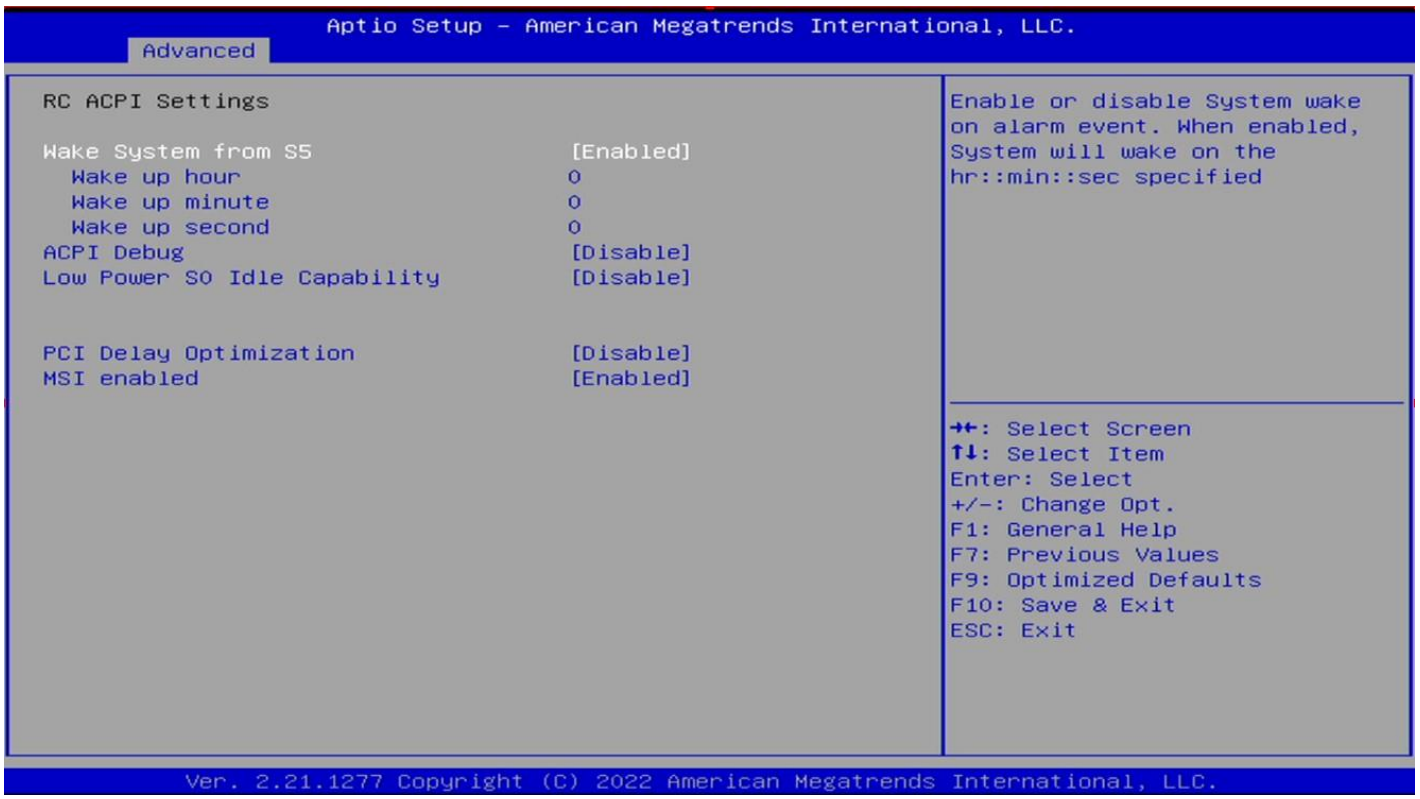
Press <F1> for help, press <Esc> to exit. Please see the following sheet for details.

Control Keys	Function Description
←/→	Move the left and right arrows to select the screen
↑/↓	Move the up and down arrows to select the up and down items
+ / -	Increase/decrease the value or change the selection
<Enter>	Select this option to enter the sub-menu
<ESC>	Return to the main screen, or end the CMOS SETUP program from the main screen
<F1>	Show related auxiliary instructions
<F2>	Restore the previous setting
<F9>	Load the optimal value setting (BIOS initial value)
<F10>	Save the changed CMOS settings and reboot

3.2.1 Set the timer start time

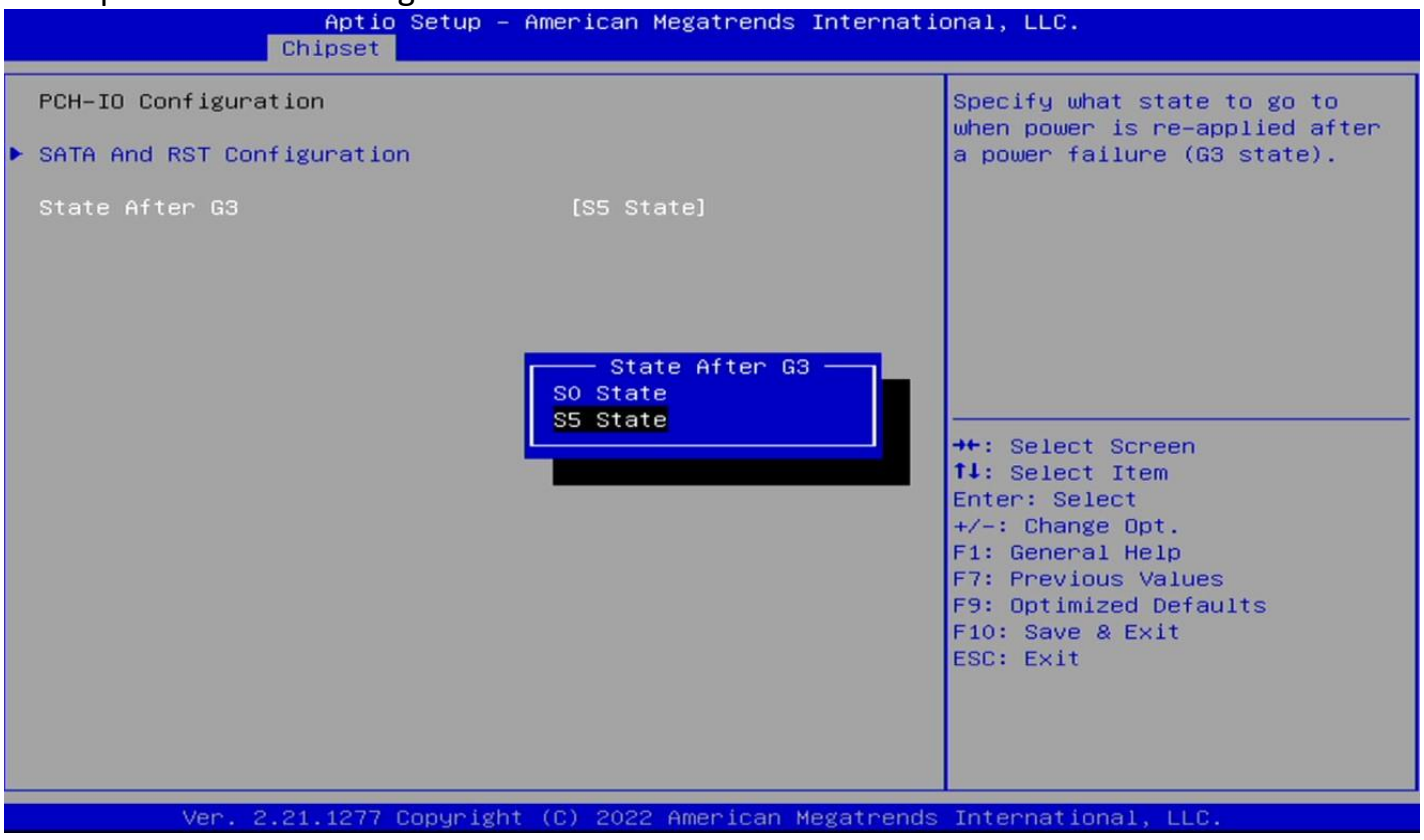
Advanced→RC ACPI Setting→Wake system from S5（The default is Disabled）
After setting to Enabled, you can set the timer on time, which is hour, minute and second

respectively.



3.2.2 Power-on settings(State After G3)

Chepset→PCH-IO Configuration →State After G3



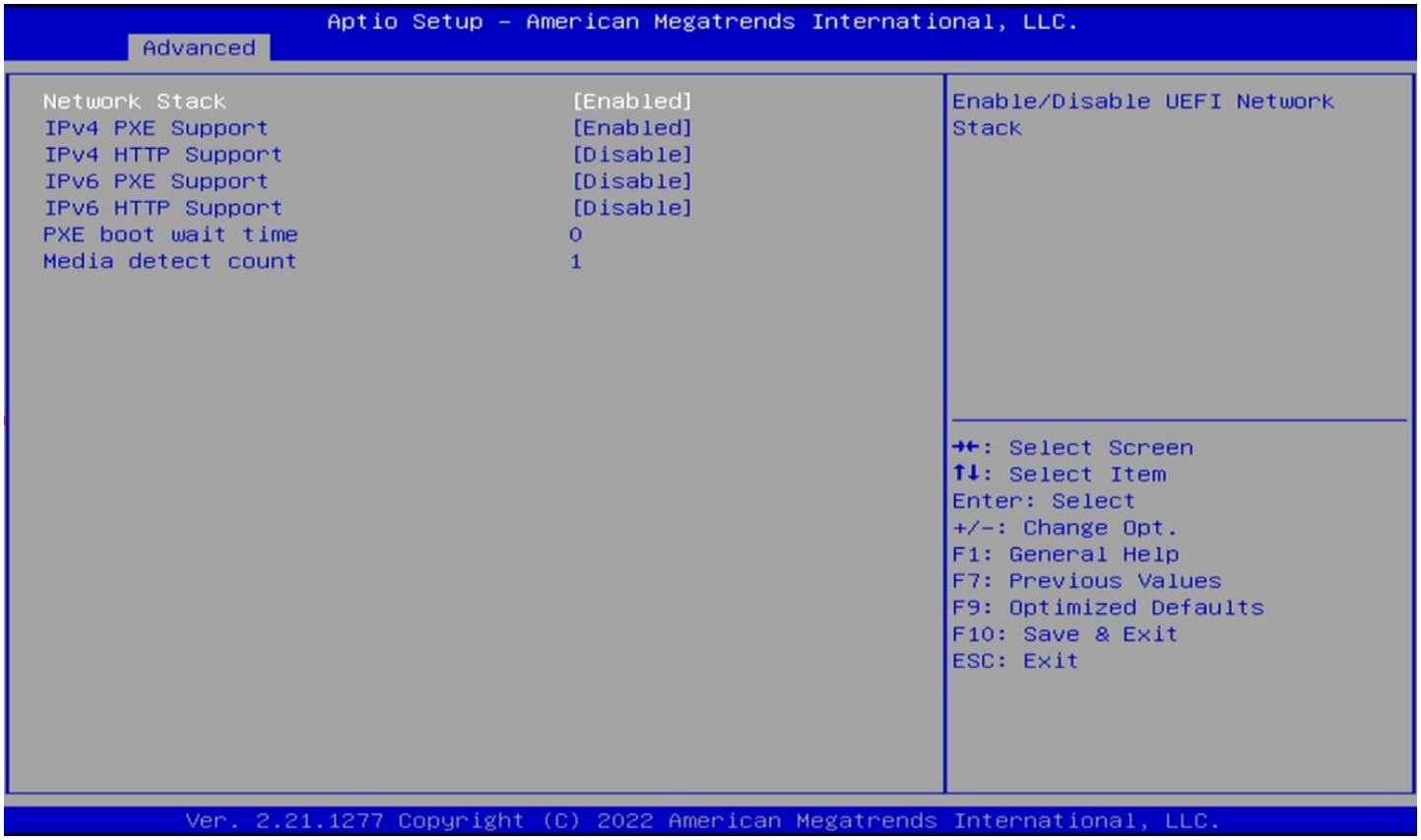
•State After G3， The available options are： S0 State/S5 State

S5 State： Press the power on button to turn on normally

S0 State： Automatic power on after power on.

3.2.3 PXE Setting(Network Stack Configuration)

Advanced→ Network Stack Configuration



- Network Stack The default option is Enabled

  PXE Function Controller； Available options are： Enabled， Disabled

How to avoid equipment failure

N0.	Failure phenomenon	Exclusion method
1	No power on	1. Make sure that the AC power adapter is connected to the computer and that the power cord plug is plugged into a properly working power outlet: 2. the computer is turned on (press the power button again to confirm that it is turned on properly); 3. If the above items have been set correctly, but the computer still does not turn on, please promptly contact the supplier.
2	No screen display when computer is turned on	1. Please check whether the HDMI and DP cables are properly connected 2. Check if the monitor input mode is correct
3	A black screen appears while the computer is running	1. Check the power indicator status to confirm whether the device is in hibernation mode? Press the power button to see if it wake up 2. Check if the monitor is hibernating
4	Computer not responding	1. To force the power off, press and hold the power button and then turn the power back on; 2. Or dial down the power plug, and then reconnect the power on
5	No sound from speakers or headphones	1. Check if the mute function is off 2. Whether speakers or headphones are selected as the playback device

If you encounter any questions in the use, please feel free to contact us, thanks again for your support and happy life!