

FP750 Motherboard



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FP750

User Manual

(Version V0.5)

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NO.	Description	Issue Date:
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Chapter 1 Product Introduction

1.1 Brief Introduction

The MTN-FP750 compact mini pc is a 4x4 small form factor pc based on AMD Ryzen [™] 6000/7000 series processor, built with innovative technology and optimized high performance.

1.2 Parameters

AMD Ryzen Mobile Processors Processor:

- Ryzen 5 6600H --- 6 Cores/12 Threads, Base Freq. 3.3 GHz, Max Freq. 4.5GHz, TDP: 45W
- Ryzen 7 7735HS --- 8 Cores/16 Threads, Base Freq. 3.2 GHz, Max Freq. 4.75GHz, TDP: 45W

Memory: 2x SO-DIMM DDR5-4800MHz Slots, support dual-channel, maximum capacity 64GB

GPU: Integrated Graphics based on CPU, Dual 4K displays via 2x HDMI2.0

Storage: 1x SATA3.0 interface, 1 x M.2 Key M 2280 slot for NVMe SSD

USB: 3x USB3.2 Gen 2 interfaces, 1x USB2.0 interface

Type C: 1xUSB-C Full-functioned interface (supports USB3.0 Gen 2 upstream/Display Port 1.4 Alt Mode)

Expansion: 1x M.2_Key E Slot type 2230 for Wi-Fi and Bluetooth

Ethernet: Onboard RTL8125BG Network Controller, 1x RJ45 interface. Data Rate Per Port: 2.5Gbps

Audio: High-Definition Realtek Audio Codec,1xCTIA Audio Jack, supports Line-out+Mic-in.

Other I/O: 1x Power button (PWON), 1x FP_PWON Power button optional for remote control wired switch.

Power: 19V/20V DC-in. (Note: please use 90W and above for the adopter power consumption)

Board Dimension: 120mm x 120 mm

Chassis Dimension: 128mm x 130mm x 52mm

Working Temperature: 0°C~50°C

1.3 Connector Diagram



1.4 I/O Interface



Chapter 2 Hardware

2.1 Installations

Please refer to the following steps for installations:

- 1. Read the user manual carefully to make sure all the adjustments on the FP750 are correct.
- 2. Installing the Memory:
 - Press the ejector tab of the memory slot outwards with your fingertips.
 - Hold the memory module and align the key to the module with that on the memory slot.
 - Gently push the module into the slot until the ejector levers return completely to the closed position, holding the module in place when the module touches the bottom of the slot. To remove the module, press the ejector levers outwards to unseat the module.
- 3. Installing the expansion cards:
 - Locate the expansion slots and remove the screw, insert the cards into the slot at a 45-degree angle then attach the screw to the expansion cards, gently press down on it then install the screw back.
- 4. Connect all signal wires, cables, panel control wiring, and power supplies.
- 5. Start the computer and complete the setup of the BIOS program.

The board's components are integrated circuits and can easily be damaged by Electrostatic Discharge or ESD; therefore, please follow the instructions:

- Hold the board's edge when handing, and do not touch onboard pins, components, or plug sockets.
- When touching integrated circuit components (such as CPU, RAM, etc.), please wear an anti-static wrist strap/glove to avoid electrostatic discharge damage to the board or other sensitive components.
- Before installing the integrated circuits/sensitive components, place the sensitive components in anti-static bags to keep them safe from ESD.
- Please make sure the power switch is OFF before plugging the power plug.

2.2 Jumper Setting

Please configure the jumpers according to your requirements before installing the hardware.

How to identify the first header of jumpers and pins: Observe the mark beside the jumper or pins and find the header marked by "1" or bold line or triangular symbol. Or observe the rear panel and the header with a square solder pad is the first header.

2.3 Memory Slots

The board provides 2x SO-DIMM DDR5-4800 slots for memory up to 64GB and supports dual channels. Notes: Make sure to hold the memory module and align the key to the module with that on the memory slot. While choosing a memory module, please make sure the module matches the board's specifications.

2.4 Display Interfaces

The board features 2xHDMI2.0 standard interfaces, and supports dual 4K displays.

2.5 Storage Interfaces (Screen Printing: SATA, M.2_N)

The board provides 1 x M.2 Key M slot, supports 2280 NVMe SSD, 1x FPC SATA3.0 interface for 2.5-inch hard disk.

SAIA (SCIEER FIIILING. SAIA)			
Pin	Signal		
1	GND		
2	SATA_TX_DN		
3	SATA_TX_DP		
4	GND		
5	SATA_RX_DP		
6	SATA_RX_DN		
7	GND		
8	5V		
9	5V		
10	5V		
11	GND		
12	GND		

SATA (Screen Printing: SATA)

2.6 Expansion Slots (Screen Printing: M.2_E)

Screen Printing M.2_E: 1x M.2_Key E type 2230 for Wi-Fi Module and Bluetooth.

2.7 LAN interface

The board features 1xRJ45 LAN interfaces with a high-speed RTL8125BG network controller, and the data rate per port: 2.5Gbps; supports network wake-up (Magic packet wake-up) and UEFI PXE network boot.

LED Status Indicators:

LI_LED Status (Green)	Function	ACT_LED Status (Orange)	Function
Always on	Network Connected	Flashing	Data transmission

2.8 Audio Interface

The board features a Realtek ALC897 High-Definition Audio Codec, 1xCTIA Audio Jack, supports Line-out

+ Mic-in.

2.9 CPU Fan (Screen printing: CPUFAN)

The board features a CPU cooling fan socket and a system fan socket for better heat dissipation.

FAN Socket Definitions (Screen Printing: CPUFAN, SYSFAN)

Pin	Signal
1	GND

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2	+5V
3	TAC
4	CTL

2.10 USB Interfaces

The board provides 3x USB3.2 Gen 2 interfaces, and 1x USB2.0 interface.

2.11 Type-C Interface

The board features a Type-C(USB-C) Full-functioned interface, the interface also supports USB3.2 Gen 1 upstream/Display Port 1.4 Alt Mode functions.

2.12 Power Button (Screen printing: PWON)

The board features a power button with a power light indicator above (Blue LED); an optional FP_PWON remote control switch (Screen printing: FP_PWON).

Pin	Signal	
1	Power Switch Signal, Low Level for Power On/Off	
2	GND	
3	Negative Terminal of the Power Indicator Light	
4	Positive Terminal of the Power Indicator Light	

Optional Function FP_PWON Remote Control Wired Switch (Screen Printing: FP_PWON)

2.13 CMOS Clearance/Retention (Screen printing: CLR_CMOS)

CMOS is powered by onboard button batteries. Clearing CMOS will permanently remove the previous system settings and restore the board system to original settings (factory settings).

Step 1: Turn off the PC and disconnect the power.

Step 2: Press CLR_CMOS for 10 seconds then disconnect.

Step 3: Restart the device, press the button to enter the BIOS, load the optimal default value.

Step 4: Save, and exit the settings.

CMOS (Screen Printing: CLR_CMOS)

Please do not clear COMS when the PC is connected to power in case board damages.

Chapter 3 BIOS Setup

3.1 Entering the BIOS

- 1. Turn on the computer and press <Delete> entering the BIOS
- 2. After the computer is turned on, keep pressing F11, select enter Setup
- 3. BIOS Hotkeys:

F9: Restore to Factory setting. F10: Save and Exit. ESC: Exit

3.2 Main Setup (BIOS info, Date, Time)

When you enter the BIOS Setup utility the first things you will encounter is the Main Setup screen. Shown below is the Main BIOS Setup screen. You can always return to the Main setup by selecting the Main tab.



System Date: Set the date. MM/DD/YY format. System Time: Set the time. HH:MM: SS format.



3.3 Advanced Settings

Aptio Setup – AMI Main Advanced Chipset Security Boot Save & Exit	
Trusted Computing AMD fTPM configuration ACPI Settings Hardware Monitor Watch Dog Configuration SS RTC Wake Settings CPU Configuration SATA Configuration AMI Graphic Output Protocol Policy Option ROM Dispatch Policy USB Configuration Network Stack Configuration NVME Configuration Tls Auth Configuration AMD Overclocking AMD Overclocking AMD CBS AMD CBS AMD CBS AMD CBS AMD CBS AMD CBS: Calter of the set of	<pre>Trusted Computing Settings ++: Select Screen 1.: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>
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Select any of the items in the left frame of the screen. The advanced sections allow you to configure, improve and set up system features according to the preference of the CPU Configuration. All Advanced BIOS Setup options are described as follows:

- 1. Trusted computing
- 2. AMD fTPM configuration
- 3. ACPI Settings
- 4. Hardware Monitor
- 5. Watch Dog Configuration
- 6. S5 RTC Wake Settings
- 7. CPU Configuration
- 8. SATA Configuration
- 9. AMI Graphic Output Protocol Policy
- 10. Option ROM Dispatch Policy
- 11. USB Configuration
- 12. Network Stack Configuration
- 13. NVME Configuration
- 14. Demo Board
- 15. T1s Auth Configuration
- 16. AMD Overclocking
- 17. AMD PBS
- 18. AMD CBS
- 19. AMD Graphic Driver Health
- 20. Realtek PCIe 2.5GBE Family controller: Realtek PCIe 2.5GBE



3.3.1 AMD fTPM Configuration

Advanced	Aptio Setup - AMI	
Advanced AMD fTPH sultch Erase fTPM NV for factory reset	[AMD CPU fTPM] [Enabled]	To select.0:Auto(Depend on Tcg modudle). 1:Disabled fTPM. 2:OnBoard SPI TPM2.0
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AMD fTPM Switch:

The TPM (Trusted Plat-form Module) is a secure key generator and key cache management component that enables protected storage of encryption keys and authentication credentials for enhanced security.

This option allows you to choose from internal CPU TPM or external TPM. Select AMD CPU fTPM for CPU internal TPM, and select Route to LPC TPM for external TPM2.0.

3.3.2 ACPI Settings

Advanced	Aptio Setup – AMI	
ACPI Settings		Enables or Disables BIOS ACPI Auto Configuration.
Enable ACPI Auto Configuration		
Enable Hibernation ACPI Sleep State	[Enabled] [S3 (Suspend to RAM)]	
		<pre> ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>
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- 1. Enable ACPI Auto Configuration: Disabled by Default
- 2. Enable Hibernation
- 3. ACPI Sleep State



3.3.3 Hardware Monitor

Advanced	Hptio Setup – HMi	
Advanced Pc Health Status CPU temperature System temperature CPU Fan Speed System Fan Speed VCore V_SM 3.3V SV > Smart Fan Function	HPTTO SECUP - HMT : +41 °C : +33 °C : 1530 RPM : N/A : +0.693 V : +1.110 V : +3.337 V : +5.085 V	Smart Fan function setting ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
		2022 AVA

PC Health Status

The PC health status displays CPU temperature, system temperature, fan speed, and other relevant voltage values. The above parameters have a certain range, and the system cannot run beyond these ranges.

- 1. CPU Temperature
- 2. System Temperature
- 3. CPU Fan Speed
- 4. System Fan Speed
- 5. VCore: Core Voltage
- 6. V_SM
- 7. 3.3V
- 8. 5V
- 9. Smart Fan Function: The Smart Fan Function allows you to set three different modes for the CPU fan speed and system fan speed, according to your needs.
 - 1) Automatic Mode
 - 2) Full on Mode
 - 3) Manual Mode



3.3.4 Watchdog Configuration

Advanced	Aptio Setup — AMI	
Watch Dog Configuration WDT Timeout Mode	[Disabled]	WDT Timeout Mode Select: Minute or Second
	WDT Timeout Mode Disabled Minute Second	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>
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Watchdog Configuration

WDT Timeout Mode select: Minute or Second

3.3.5 S5 RTC Wake Settings

Advanced	Aptio Setup – AMI	
Wake system from 85	[Disabled] 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 DynamicTime , System will wake on the current time + Increase minute(s)
	Fixed Time Dynamic Time	<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults</pre>
		F10: Save & Exit ESC: Exit

Wake system From S5: timing boot settings, disabled by default.

Fixed Time: Select Fixed Time and the system will wake on the Hr: Min: Sec specified.

Dynamic Time: Select Dynamic Time and the system will wake on a dynamic time.



3.3.6 SATA Configuration



The capacity and model of the hard disk will be displayed under the option after the SATA protocol hard disk has been installed.



3.3.7 USB Configuration

Advanced	Aptio Setup — AMI	
USB Configuration		Enables Legacy USB support.
USB Module Version	28	support if no USB devices are
USB Controllers: 5 XHCIS USB Devices: 1 Keuboard 1 Mouse		keep USB devices available only for EFI applications.
XHCI Hand-off USB Mass Storage Driver Support	[Enabled] [Enabled]	
USB hardware delays and time-outs:	[20.000]	++: Select Screen
Device reset time-out	[20 sec]	Enter: Select
Device power-up delay	[Auto]	+/-: Change Opt. F1: General Help
		F2: Previous Values
		F9: Optimized Defaults F10: Save & Exit
		ESC: Exit
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1. Legacy USB Support

Enable Legacy USB support. Disables legacy support if no USB devices are connected. Select enable will keep USB devices available under UEFI's support.

2. XHCI Hand-off

Whether to enable the USB XCHI transfer protocol. A workaround for OS without XHCI hand-off support. The XHCI ownership change should be claimed by the USB XCHI driver.

3. USB Mass Storage Driver Support

Enable(default) or disable USB Mass Storage Driver Support.

4. USB transfer time-out

Time-out value for control, bulk, and interrupt transfers, default time:20 second.

5. Device reset time-out

USB mass storage device start unit command time-out, default time:20 second.

6. Device Power-up Delay

Maximum time the device will take before it properly reports itself to the host controller.



3.3.8 Network Stack Configuration

Advanced	Aptio Setup – AMI	
Network Stack IPv4 PXE Support IPv4 HTTP Support IPv6 PXE Support IPv6 HTTP Support PXE boot wait time Media detect count	[Enabled] [Enabled] [Disabled] [Disabled] [Disabled] 0 1	Enable/Disable UEFI Network Stack
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
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Network Stack

PXE Network boot setting, disabled by default.



3.3.9 NVME Configuration



The capacity and model of the SSD will be displayed under the option after the NVMe protocol SSD has been installed.



3.3.10 AMD CBS

Advanced	Aptio Setup – AMI	A CONTRACTOR OF THE PROPERTY OF
AMD CBS	3331111111	CPU Common Options
AMD CBS Revision Number > CPU Common Options > UMC Common Options > NBIO Common Options > FCH Common Options > SMU Common Options > SOC Miscellaneous Control	0x0	<pre>**: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>
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AMD CBS: Custom BIOS Settings

- 1. CPU Common Options
- 2. DF Common Options
- 3. UMC Common Options
- 4. NBIO Common Options
- 5. FCH Common Options
- 6. SMU Common Options
- 7. SOC Miscellaneous Control

3.3.10.1 SMU Common Options

Advanced	Aptio Setup – AMI	
SMU Common Options		Warning: Select System Configuration may cause the
System Configuration		system to hang, as some System
Sustained Power Limit	35000	Configuration may not be
PPT Control	[Manual]	supported by your OPN.
Fast PPT Limit	35000	
Slow PPT Limit	35000	
Slow PPT Time Constant	0	
STAPM Control	[Auto]	
Thermal Control	[Manual]	
ТјМах	90	
TDC Control	[Auto]	
EDC Control	[Auto]	
PSI3 Control	[Auto]	→+: Select Screen
PROCHOT Control	[Auto]	1↓: Select Item
STT Control	[Auto]	Enter: Select
Fan Control	[Auto]	+/-: Change Opt.
VDDP Voltage Control	[Auto]	F1: General Help
VDDM Voltage Control	[Auto]	F2: Previous Values
SmartShift Control		F9: Optimized Defaults
Zstates (Z9 and Z10)	[Auto]	F10: Save & Exit
		ESC: Exit
I S S S S S S S S S S S S S S S S S S S		
1000 States and States		
and the second sec		
a a second a second		

- 1. System configuration
- 2. Sustained Power Limit
- 3. PPT Control
- 4. Fast PPT Limit
- 5. Slow PPT Limit
- 6. Slow PPT Time Constant
- 7. STAPM Control
- 8. Thermal Control
- 9. Tjmax
- 10. TDC Control
- 11. EDC Control
- 12. PSI3 Control
- 13. PROCHOT Control
- 14. STT Control
- 15. Fan Control
- 16. VDDP Voltage Control
- 17. VDDM Voltage Control
- 18. SmartShift Control

3.3.10.2 FCH Common Options

Advanced	Aptio Setup — AMI	
FCH Common Options • ISC/120 Configuration Options • SATA Configuration Options • USB Configuration Options • Ac Power Loss Options • Uart Configuration Options • ESPI Configuration Options • USB4 Configuration Options • SPI Configuration Options		I3C/I2C Configuration Options
		<pre> ++: Select Screen f4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>
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SATA Configuration Option

Option to check whether the SATA hard drive is recognized

AC Power Loss Options

"AC Power Loss Options" is a setting that determines the behavior of a computer when power is lost and then restored. There are two options available in this setting:

- 1. "Always off" (the default setting) means that the computer will remain off when power is restored, and you will need to manually press the power button to turn it on again.
- 2. "Always on" means that the computer will automatically turn on when power is restored. However, it is recommended that you wait for at least 15 seconds after a power loss before turning the computer back on.

3.4 Chipset

Main Advanced Chipset Security	Apt Boot	io Setup — AMI Save & Exit	
 South Bridge GFX Configuration North Bridge 			North Bridge Parameters
			<pre> ++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>
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South Bridge

Allows users to configure the South Bridge settings.

CFX configuration

Allows users to view details of the display items.

North Bridge

Allows users to configure the North Bridge settings.



3.5 Security

Main Advanced Chipset Sec	Aptio Setup – AM curity Boot Save & Exit	I
Password Description		Set Administrator Password
If ONLY the Administrator's p then this only limits access only asked for when entering If ONLY the User's password is a power on password and m boot or enter Setup. In Setup have Administrator rights. The password length must be in the following range:	bassword is set, to Setup and is Setup. is set, then this ust be entered to bo the User will	
Minimum length	1	
Maximum length	20	
		++: Select Screen
Administrator Password		↑↓: Select Item
User Password		Enter: Select
		+/-: Change Opt.
		F1: General Help
Secure Boot		F2: Previous Values
		F9: Optimized Defaults
TCG Storage Security Configu	ration:	F10: Save & Exit
KINGSTON SA2000M8250G		ESC: Exit

Administrator Password: Set the Administrator Password.

User Password: Set User Password.

Secure Boot: Secure boot



3.6 BOOT

	Main Advanced Chipset Security	Boot Save & Exit	
	Boot Configuration Setup Prompt Timeout Bootup NumLock State Quiet Boot Fast Boot	1 [On] [Enabled] [Disabled]	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
	EIXED BOOT ORDER Priorities		
	Boot Option #1	[Hard Disk:Windows Boot Manager (KINGSTON SA2000M8250G)]	
	Boot Option #2	[CD/DVD]	
	Boot Option #3	[SD]	No. Ballant Banan
	Boot Option #4	[USB Device]	→+: Select Screen
	Boot Option #5	[HEET AP:HEET:	Foter: Select
	BOOT OPTION #6	Built-in FEI Shelll	+/-: Change Ont
			F1: General Help
	UEFI Hard Disk Drive BBS Priorities		F2: Previous Values
•	UEFI Application Boot Priorities		F9: Optimized Defaults F10: Save & Exit ESC: Exit
L			
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Setup Prompt Timeout:

Number of seconds that the firmware will wait before initiating the original default boot selection. A value of 0 indicates that the default boot selection is to be initiated immediately on boot. A value of 65535(0xFFFF) indicates that firmware will wait for user input before booting. This means the default boot selection is not automatically started by the firmware.

Bootup NumLock State:

Select the keyboard NumLock state. The Bootup NumLock State allows activation of the Keypad number lock function after the system is powered on to the DOS system. When the default is set to ON, the NumLock is on when the system starts. When it is set to OFF, the keypad is in the cursor control state when starting.

Quiet Boot:

Full Logo Display: Enabled/Disabled Displays customized boot logo.

Fast Boot:

Disabled by Default

Boot Option #1~#6:

Set the system boot order from Number 1 to Number 6.

UEFI Hard Disk Drive BBS Priorities:

UEFI Hard Disk Drive BBS Priorities.

UEFI Application boot Priorities:

UEFI application boot priority.

3.7 Save & Exit

Aptio Setup – AMI Main Advanced Chipset Security Boot <mark>Save & Exit</mark>	
Save Options Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Save Changes Discard Changes Default Options Restore Defaults	Exit system setup after saving the changes.
Save as User Defaults Restore User Defaults Boot Override Windows Boot Manager (KINGSTON SA2000M8250G) UEFI: Built-in EFI Shell Launch EFI Shell from filesystem device	<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>
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Save Changes and Exit:

Exit the system setup after saving the changes and continue to start the computer.

Discard Changes and Exit:

Exit the system setup without saving any changes and continue to start the computer.

Save Changes and Reset:

Reset the system after saving the changes.

Discard changes and Reset:

Reset the system without saving any changes.

Save Changes:

Save changes done so far to any of the options.

Discard Changes:

Discard changes done so far to any of the options.

Restore Defaults:

Restore/load default values for all the options.

Save as User Defaults:

Save the changes done so far as the user defaults.

Restore User Defaults:

Restore the user defaults to all the options.

Boot Override:

Boot device selection can override your boot priority. Select the specified boot device such as SATA, USB Flash Disk, EFI Shell, PXE, etc., and boot directly. Or press F11 boot by selecting the specified boot device.