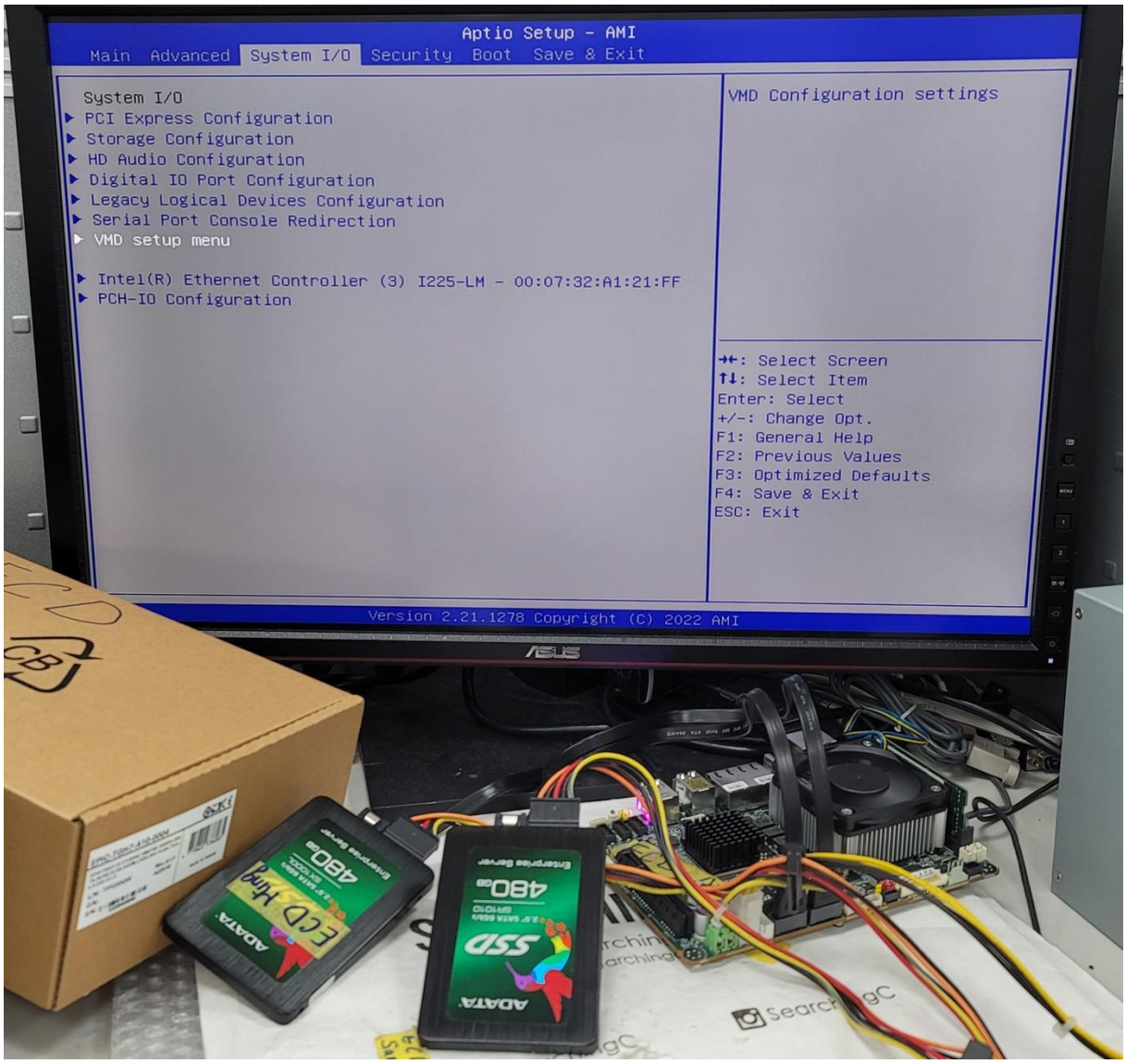
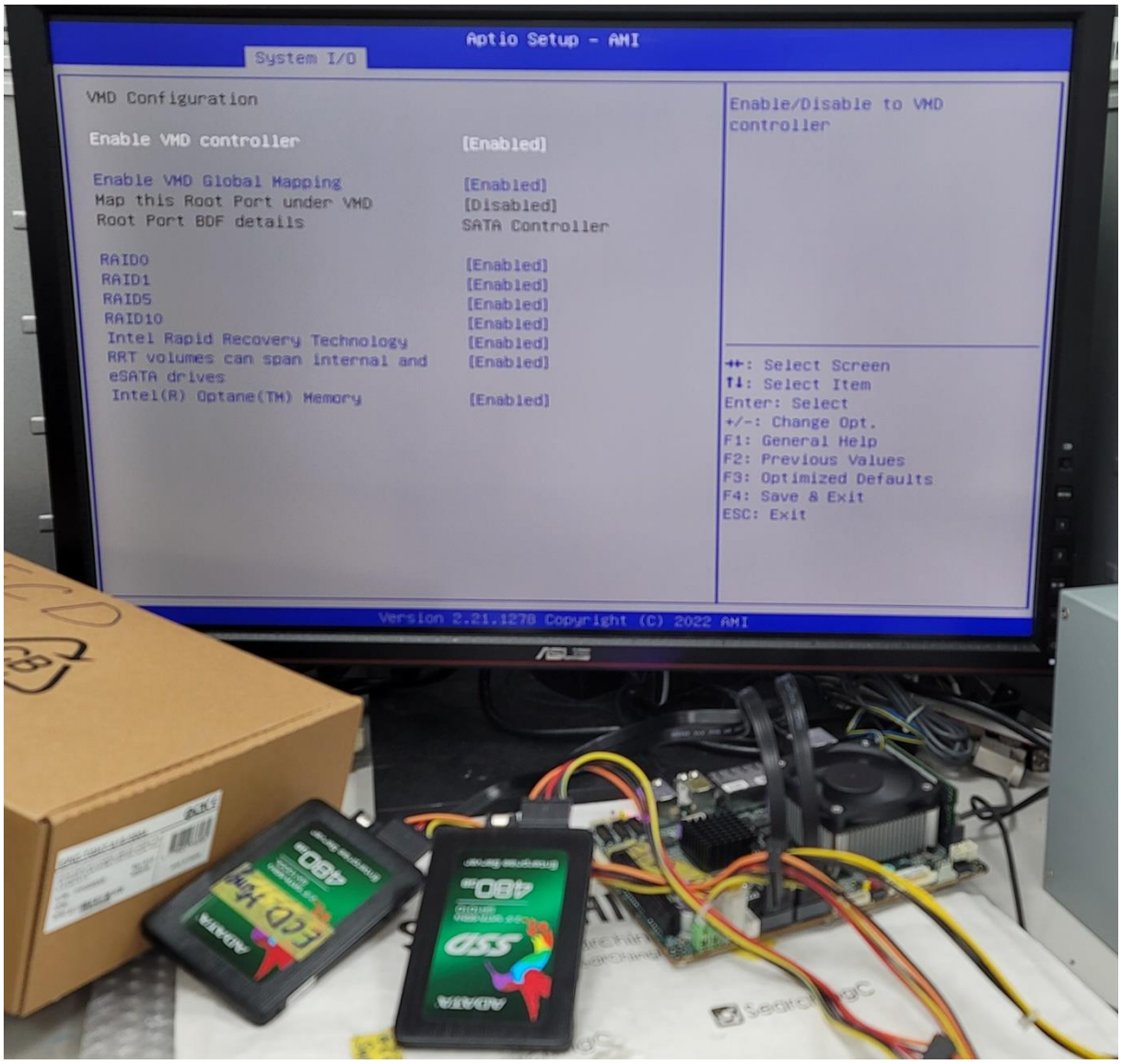
Create RAID with Windows 10 Installation

1. Proceed to the BIOS setup menu, and select “VMD setup menu” on “System I/O” folder.



2. Set “Enable VHD controller” to [Enabled]
   Set “Enable VHD Global Mapping” to [Enabled]

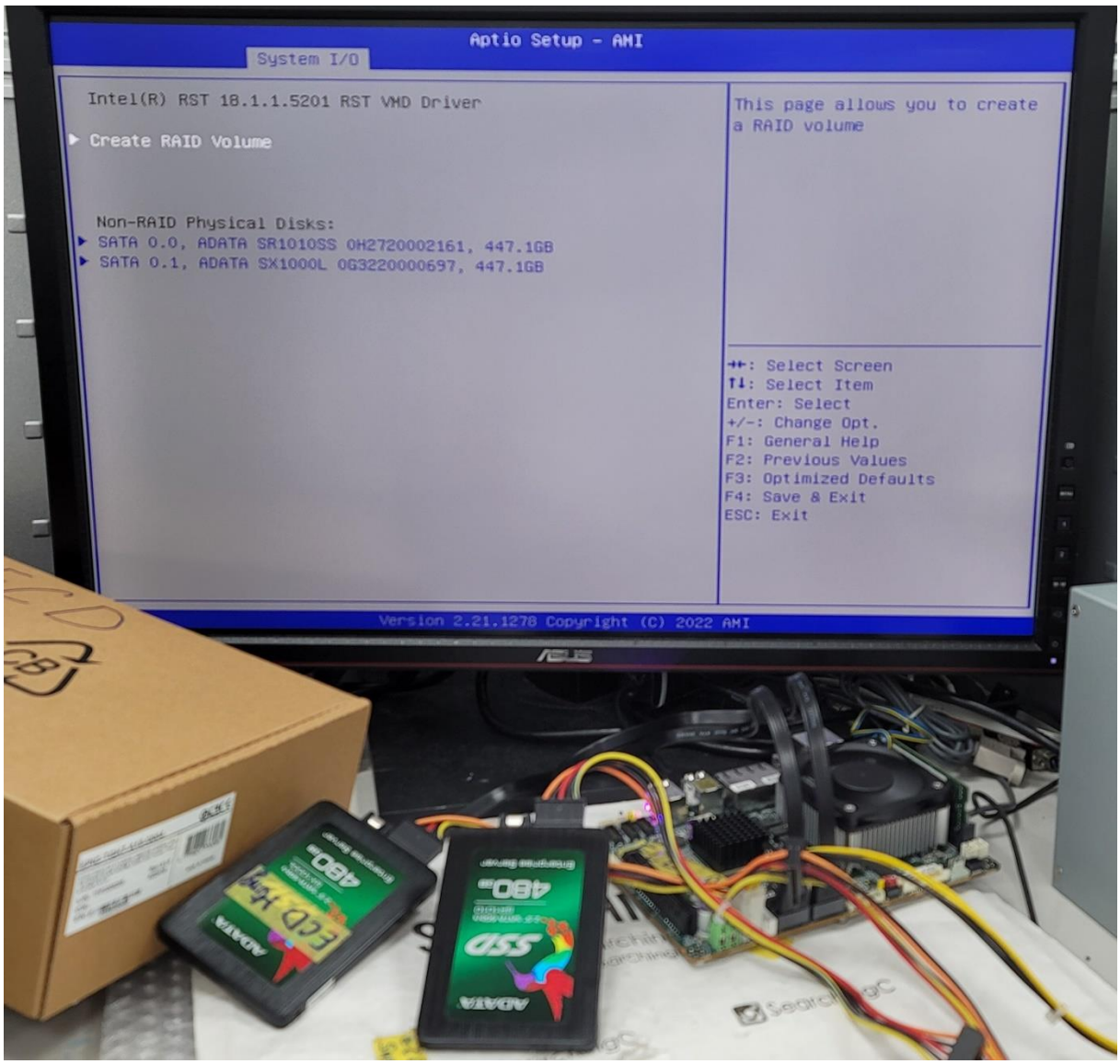


3. Press the “F4” function key to save and reboot

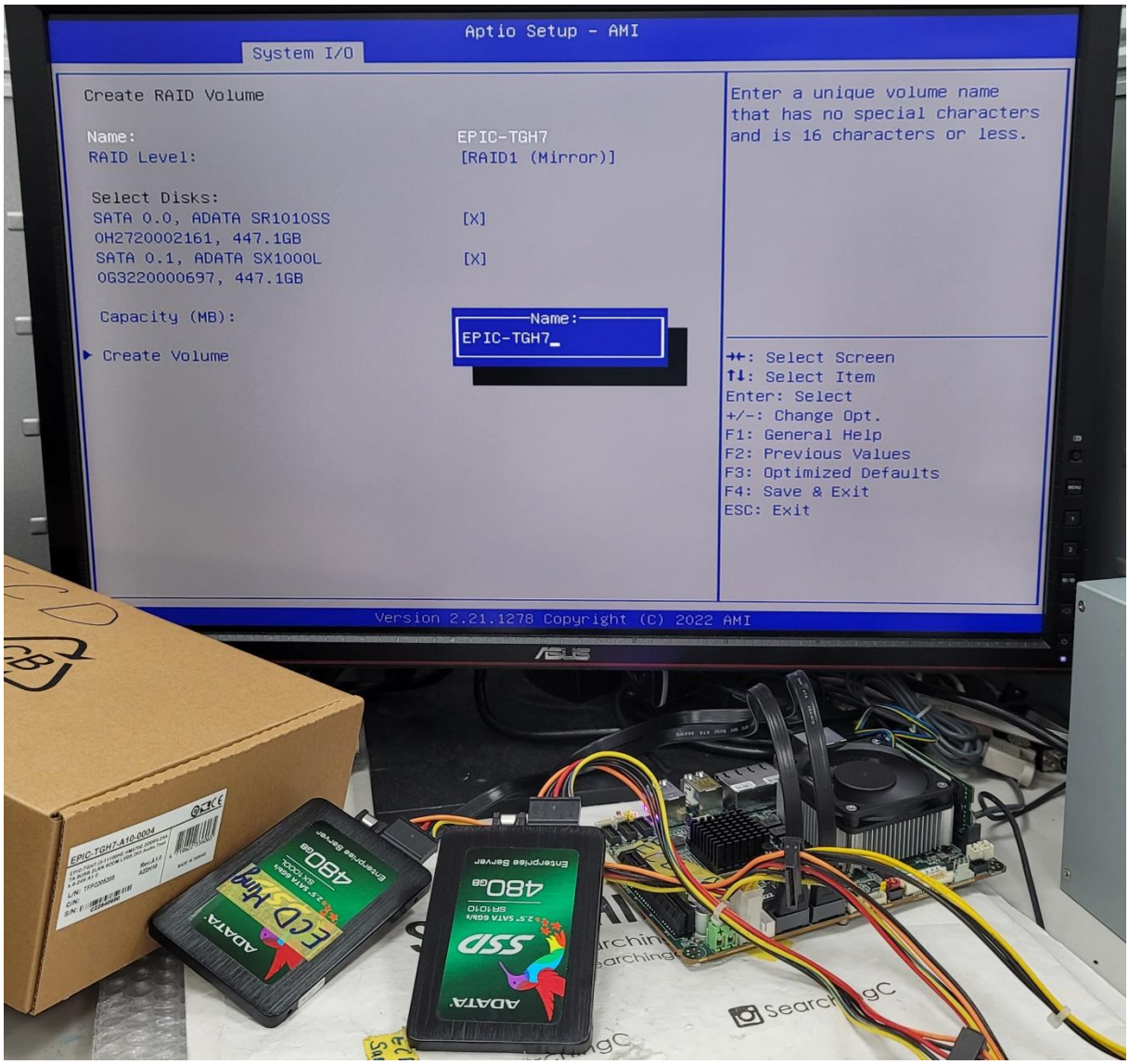
4. After rebooting, proceed to the BIOS setup menu, and select “Intel® Rapid Storage

Technology” on “System I/O” folder.

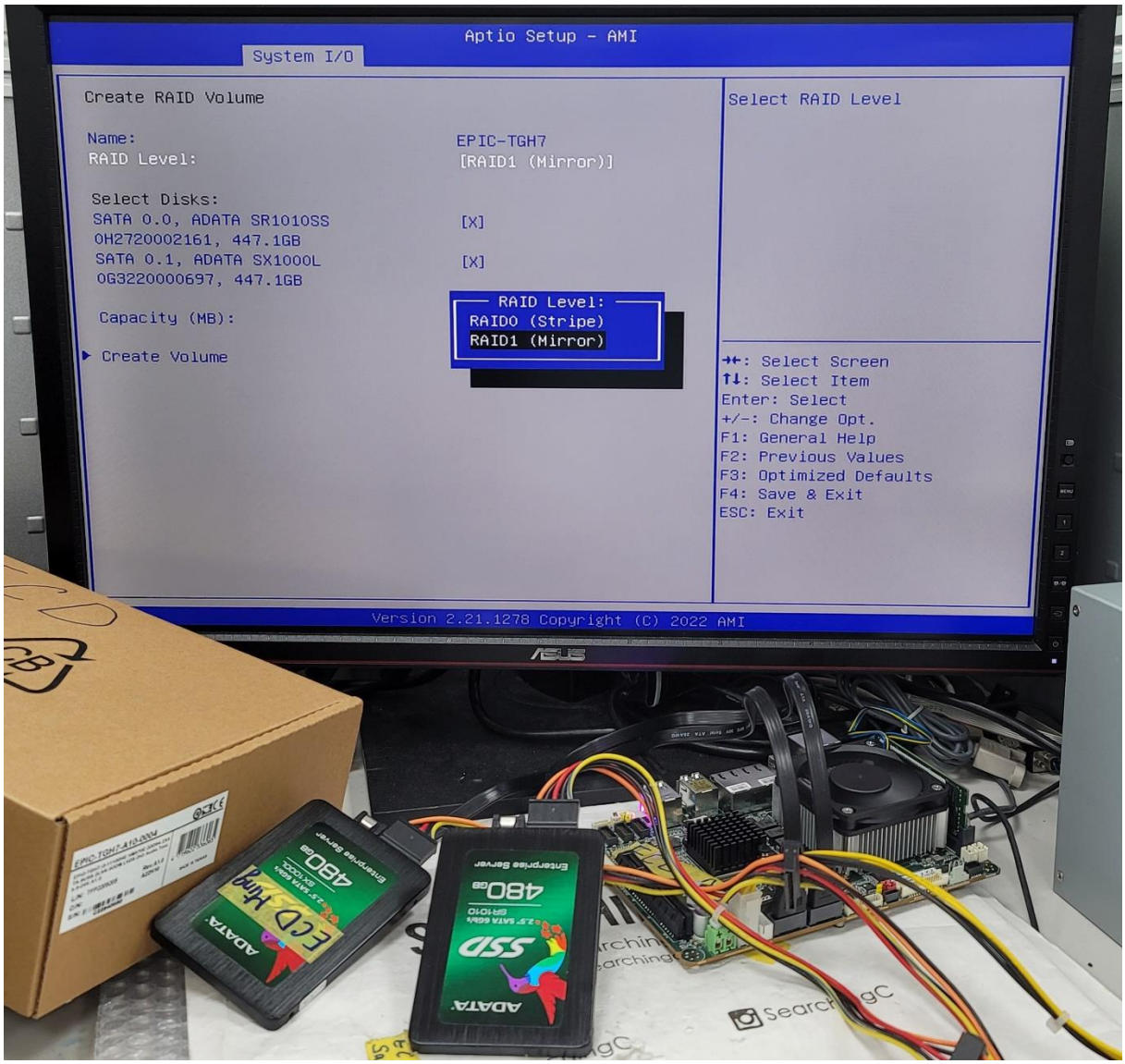
5. Select “Create RAID Volume”



6. Rename the RAID volume name (for option)



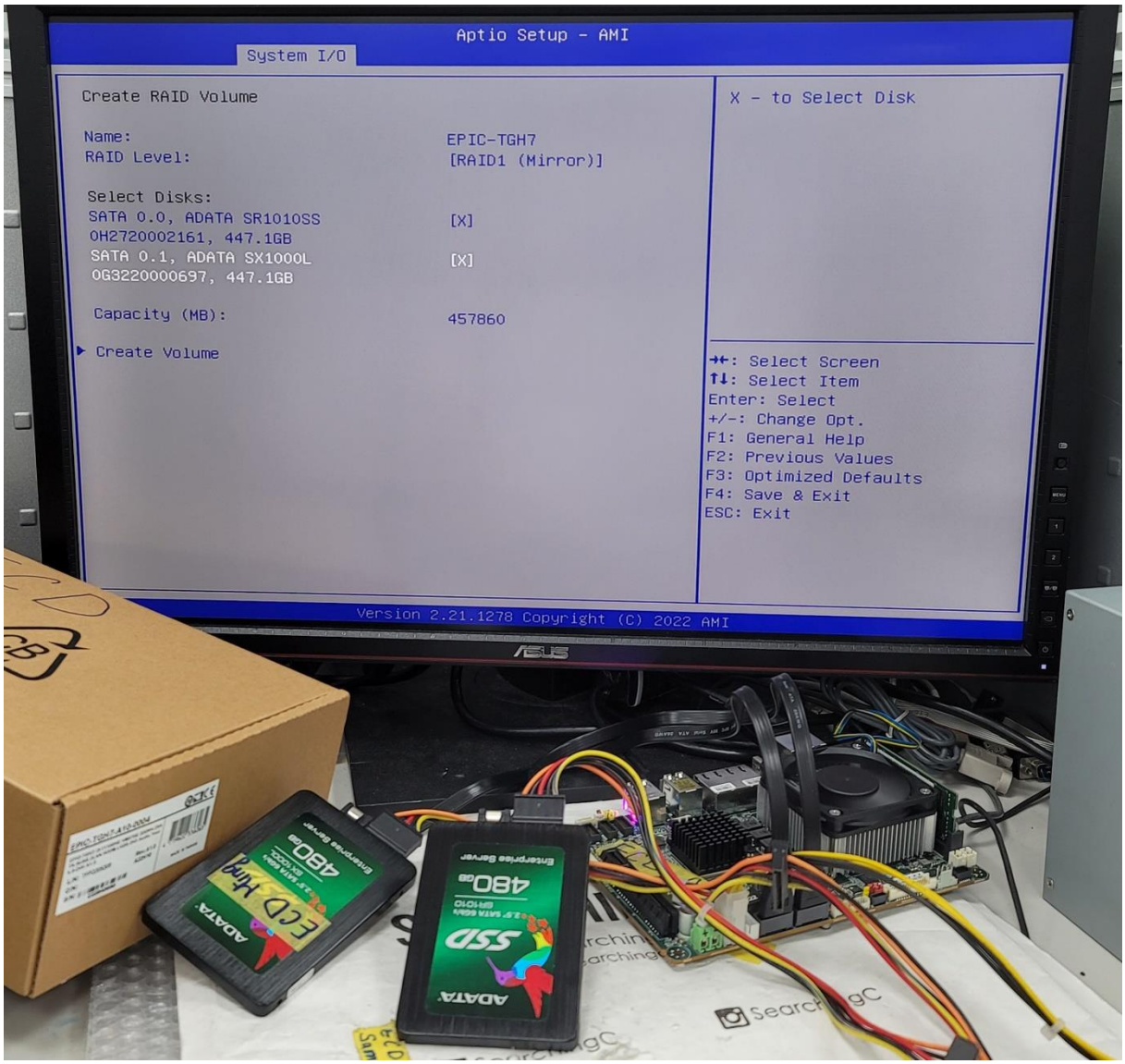
7. Select RAID type



8. Press the “Space” key to select the hard drives that are used as RAID

The selected disk is marked with "X"

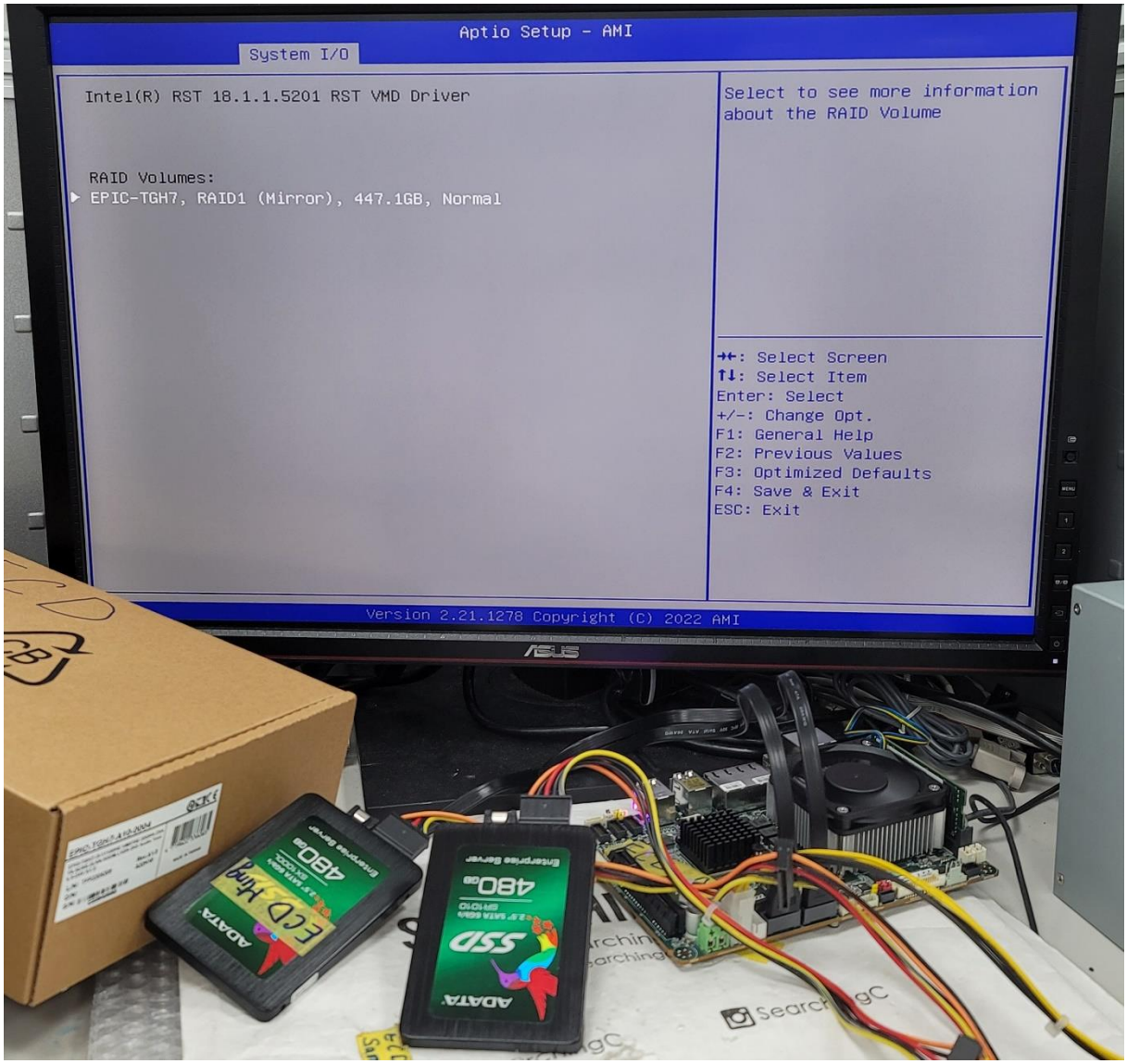
(Two disks are required at least)



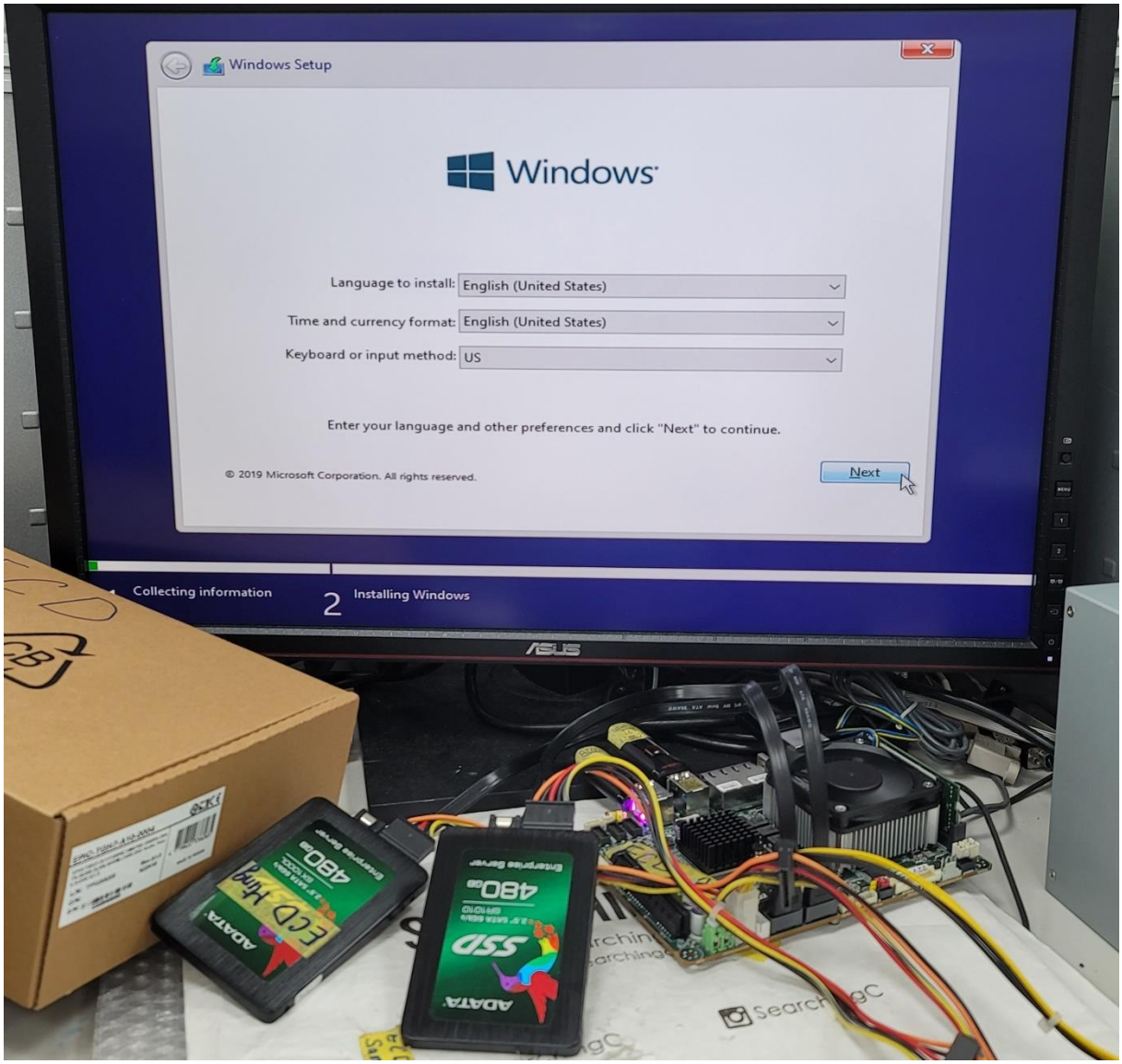
9. After the setting is completed, please select “Create Volume” to create RAID

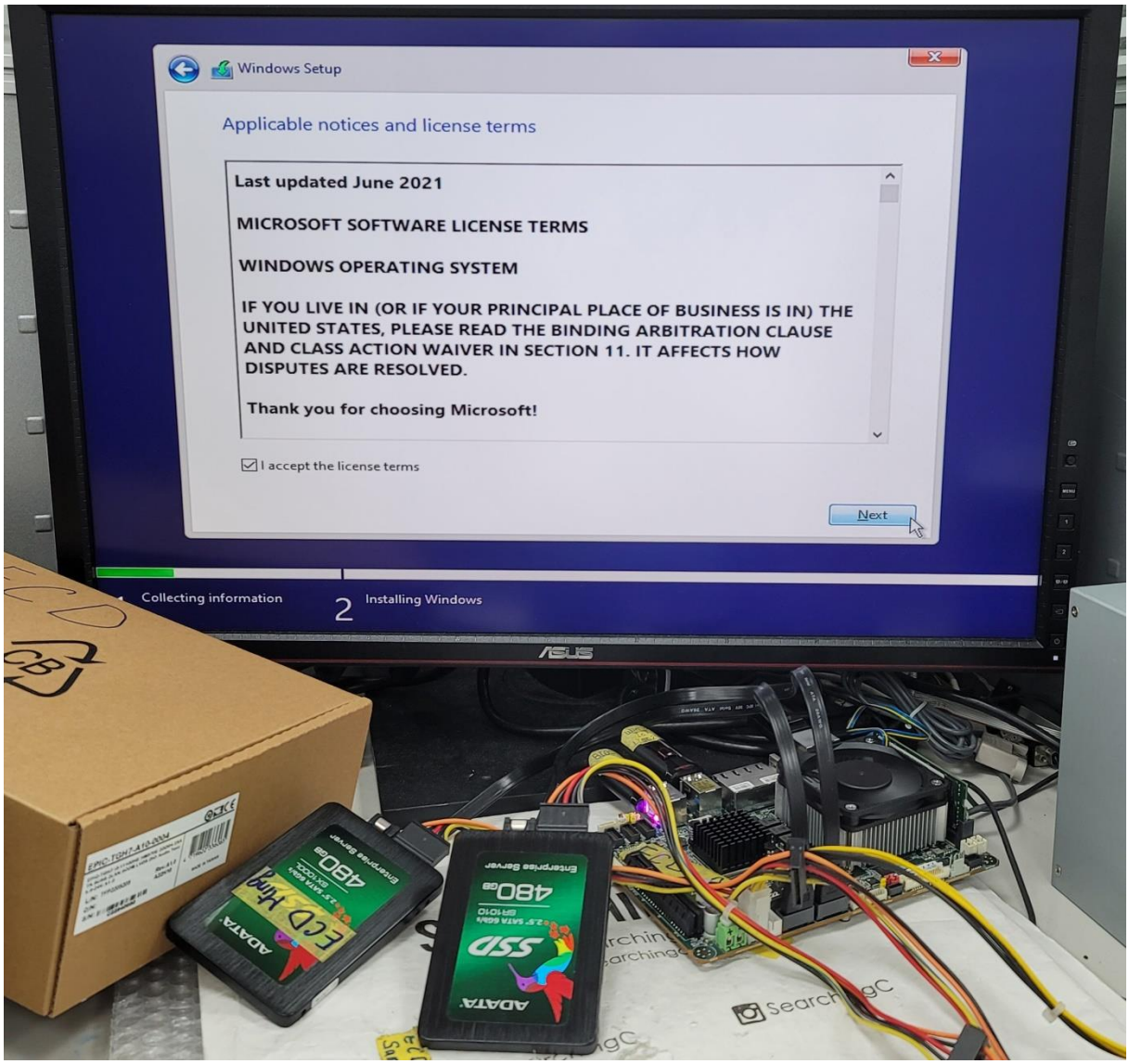
Aptio Setup - AMI
System I/O
Create RAID Volume
Name: EPIC-TGH7
RAID Level: [RAID1 (Mirror)]
Select Disks:
SATA 0.0, ADATA SR1010SS [X]
0H2720002161, 447.1GB
SATA 0.1, ADATA SX1000L [X]
0G3220000697, 447.1GB
Capacity (MB): 457860
Create Volume
Create a volume with the settings specified above
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
Version 2.21.1278 Copyright (C) 2022 AMI
ASUS
ADATA
SSD
480GB
Enterprise Server

10. The RAID disk is created successfully



11. Install Windows 10 with RAID without problem


Windows Setup
Windows
Language to install: English (United States)
Time and currency format: English (United States)
Keyboard or input method: US
Enter your language and other preferences and click "Next" to continue.
© 2019 Microsoft Corporation. All rights reserved.
Next
Collecting information
2
Installing Windows
ASUS
ADATA
480GB
SSD


Windows Setup
Applicable notices and license terms
Last updated June 2021
MICROSOFT SOFTWARE LICENSE TERMS
WINDOWS OPERATING SYSTEM
IF YOU LIVE IN (OR IF YOUR PRINCIPAL PLACE OF BUSINESS IS IN) THE UNITED STATES, PLEASE READ THE BINDING ARBITRATION CLAUSE AND CLASS ACTION WAIVER IN SECTION 11. IT AFFECTS HOW DISPUTES ARE RESOLVED.
Thank you for choosing Microsoft!
I accept the license terms
Next
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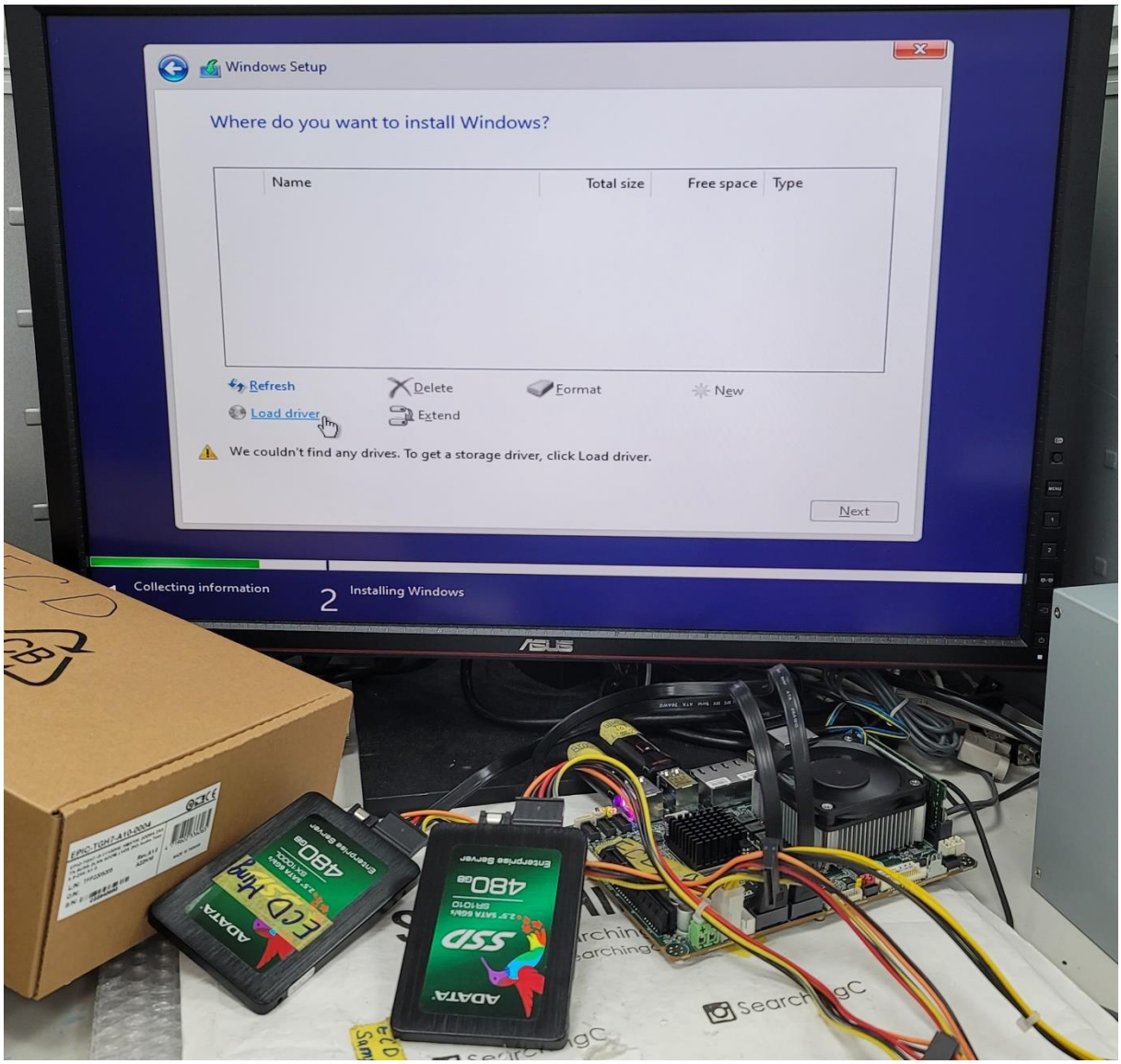
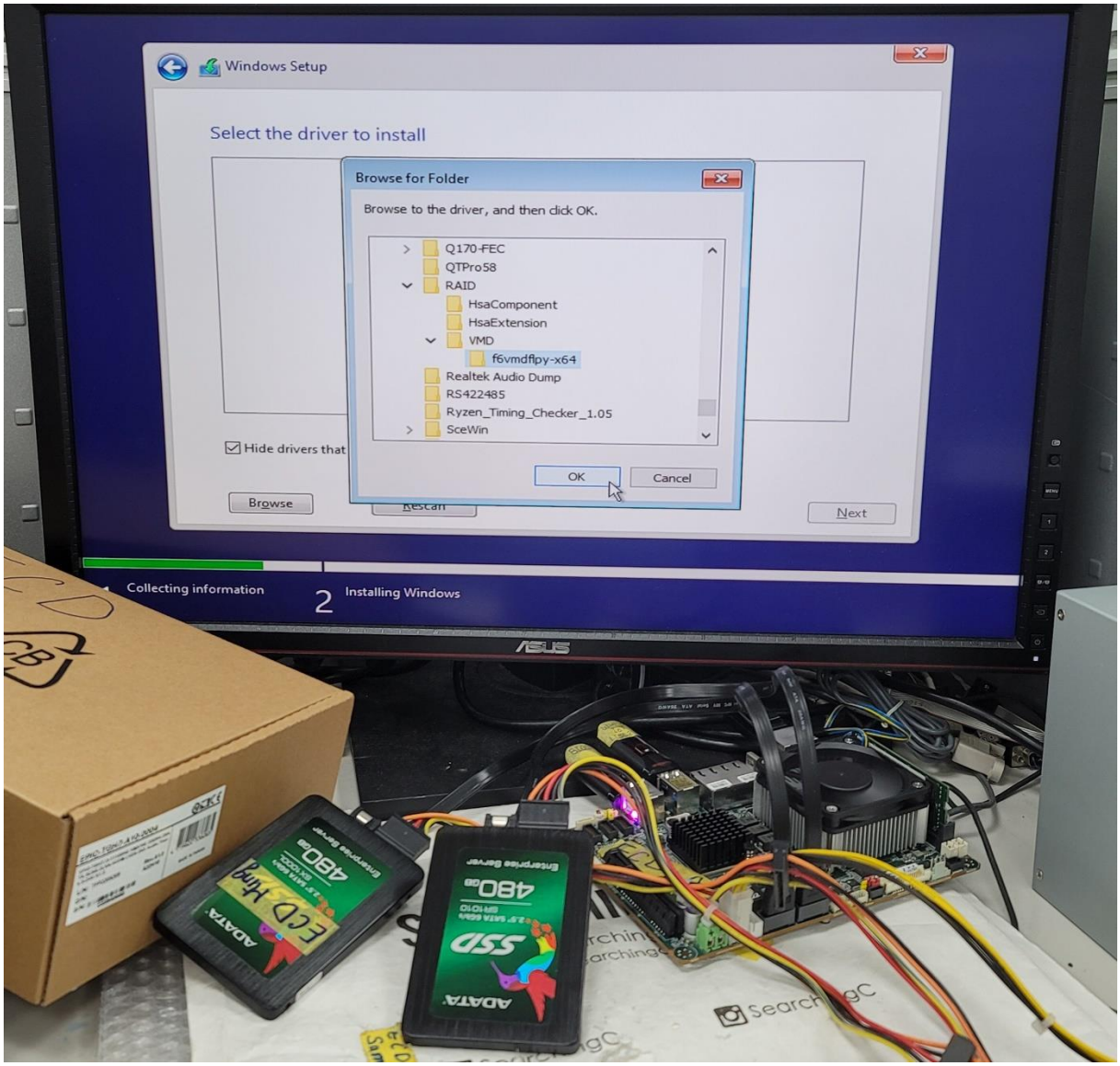
12. Intel® Rapid Storage Technology Driver:
https://www.intel.com/content/www/us/en/download/720755/intel-rapid-storage-technology-driver-installation-software-with-intel-optane-memory-11th-and-12th-gen-platforms.html

Extract the zip file into the USB flash drive first

Load the RAID driver via the USB flash drive




Windows Setup
Select the driver to install
Browse for Folder
Browse to the driver, and then click OK.
Q170-FEC
QTPro58
RAID
HsaComponent
HsaExtension
VMD
f6vmdflpy-x64
Realtek Audio Dump
RS422485
Ryzen_Timing_Checker_1.05
SceWin
OK
Cancel
Hide drivers that
Browse
Rescan
Next
Collecting information
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Installing Windows
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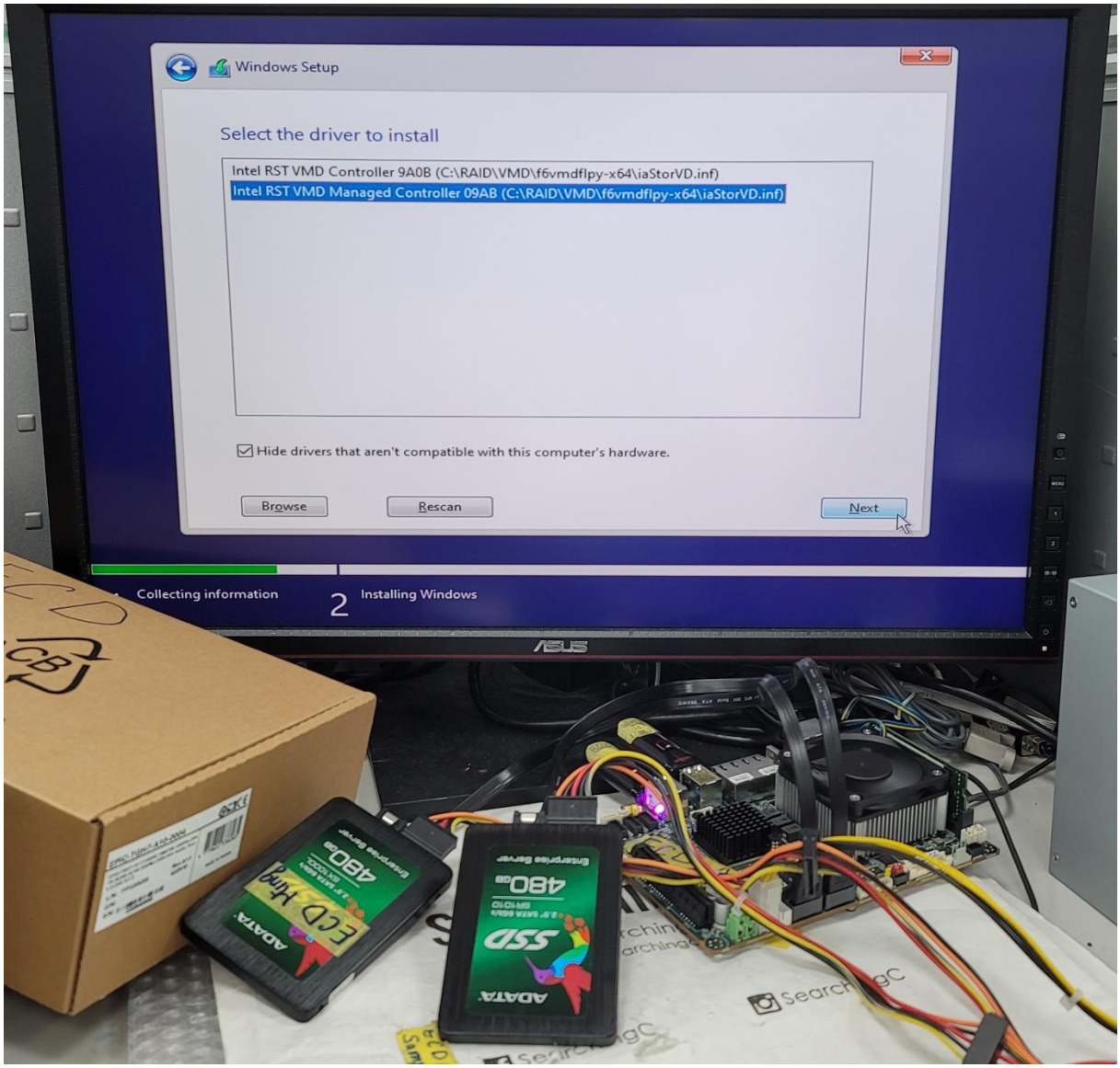
Windows Setup
Select the driver to install
Intel RST VMD Controller 9A0B (C:\RAID\VMD\f6vmdflpy-x64\iaStorVD.inf)
Intel RST VMD Managed Controller 09AB (C:\RAID\VMD\f6vmdflpy-x64\iaStorVD.inf)
Hide drivers that aren't compatible with this computer's hardware.
Browse
Rescan
Next
Collecting information
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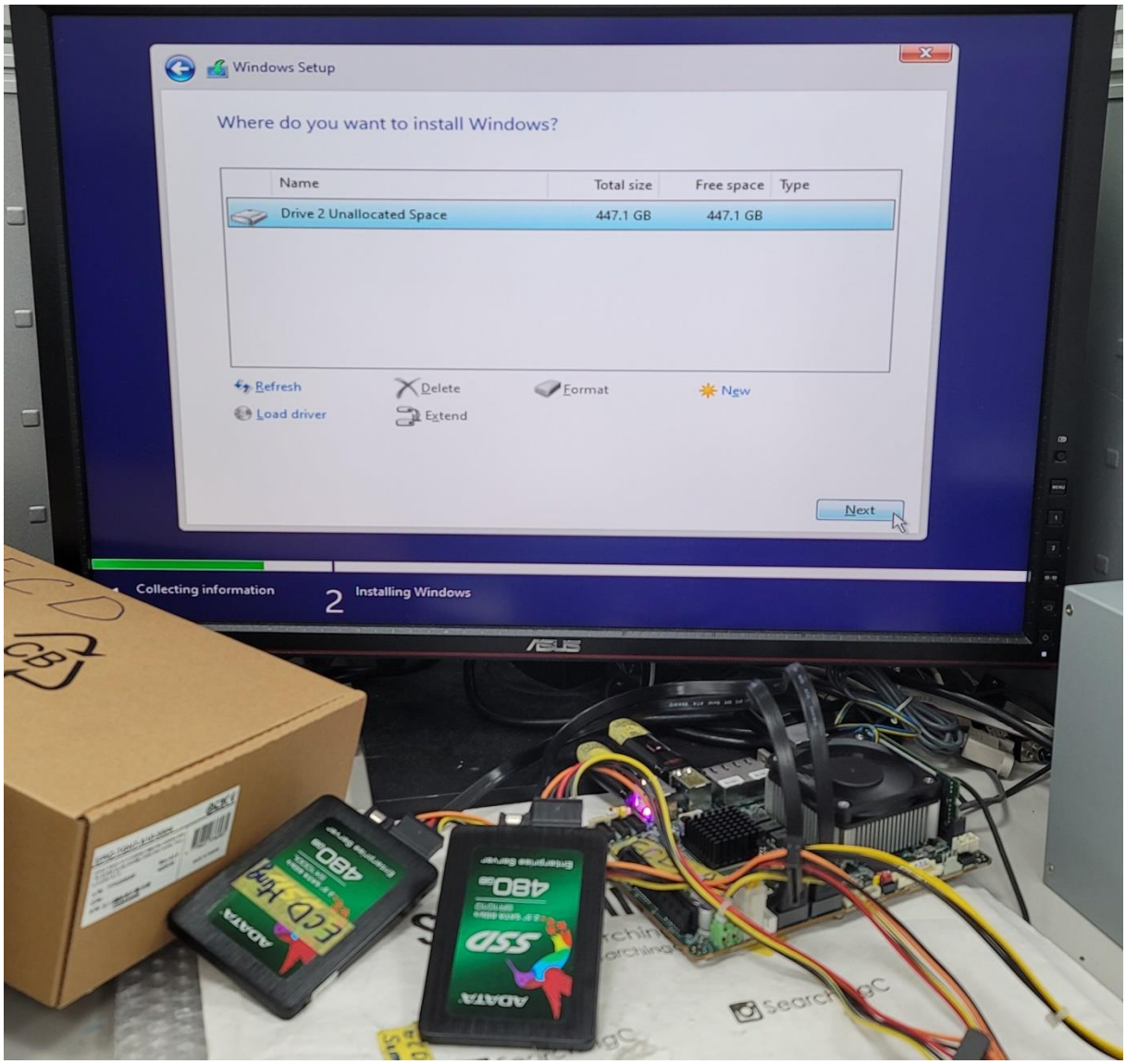
Windows Setup
Where do you want to install Windows?
Name
Total size
Free space
Type
Drive 2 Unallocated Space
447.1 GB
447.1 GB
Refresh
Delete
Format
New
Load driver
Extend
Next
Collecting information
2
Installing Windows
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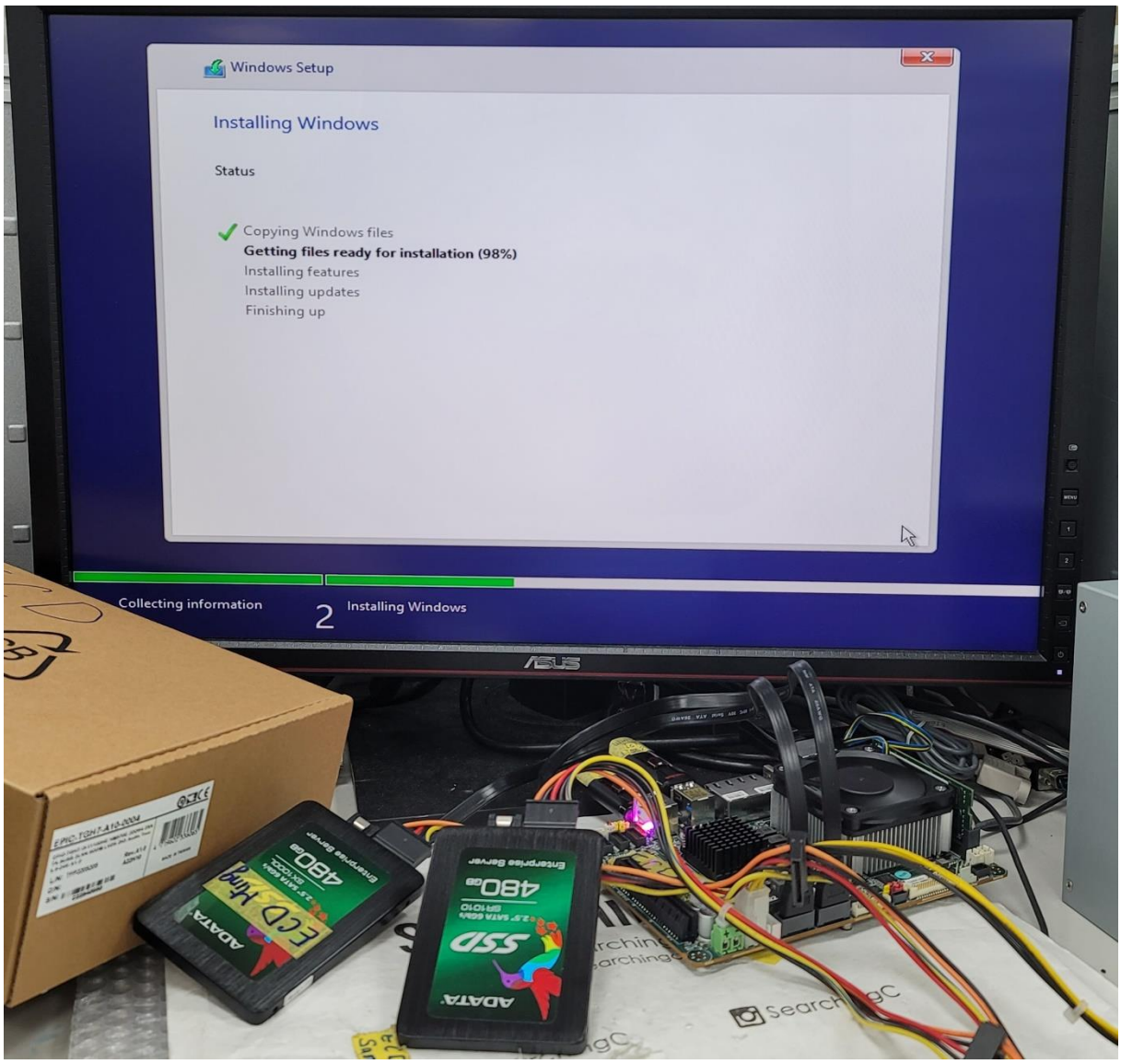
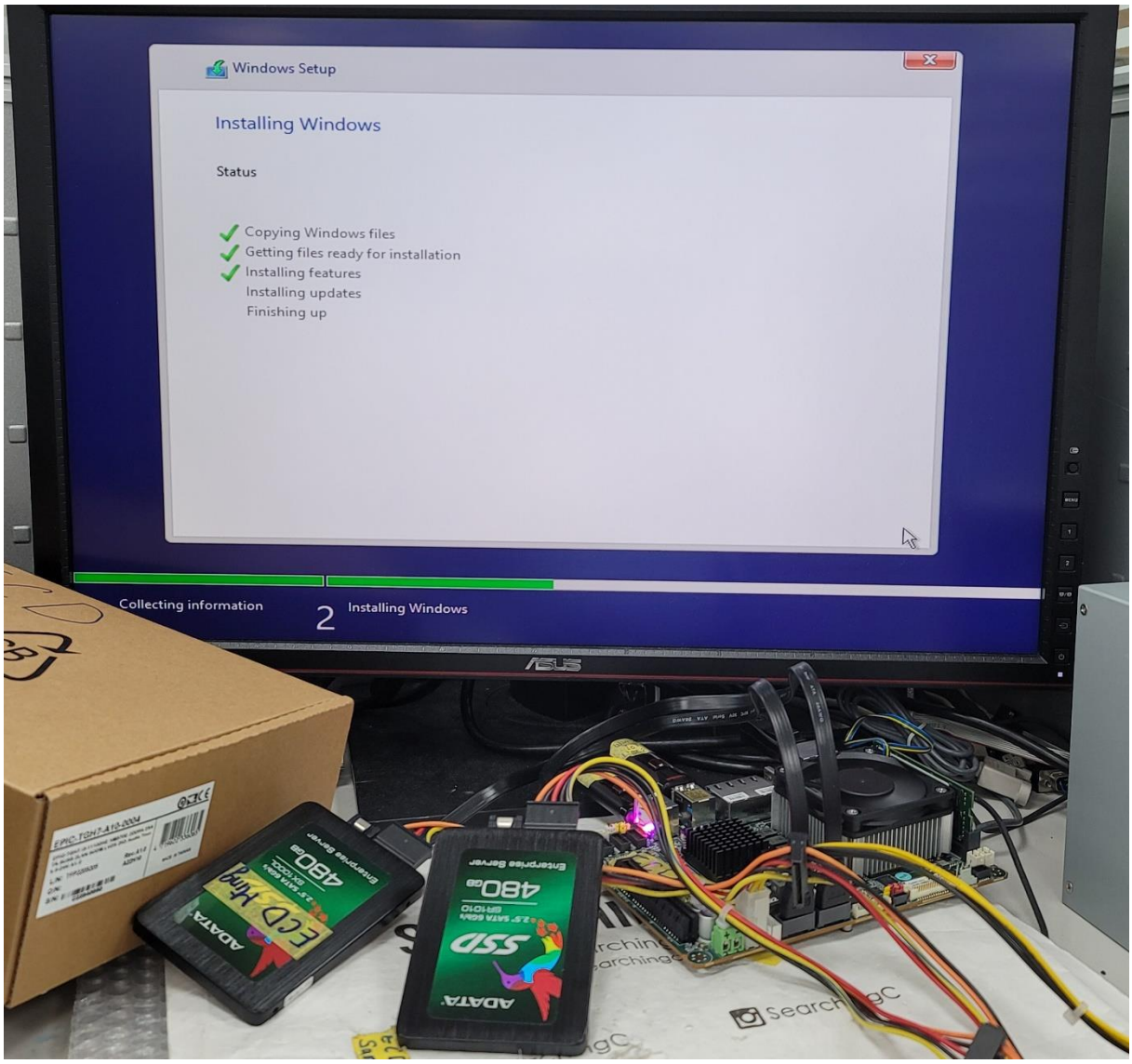
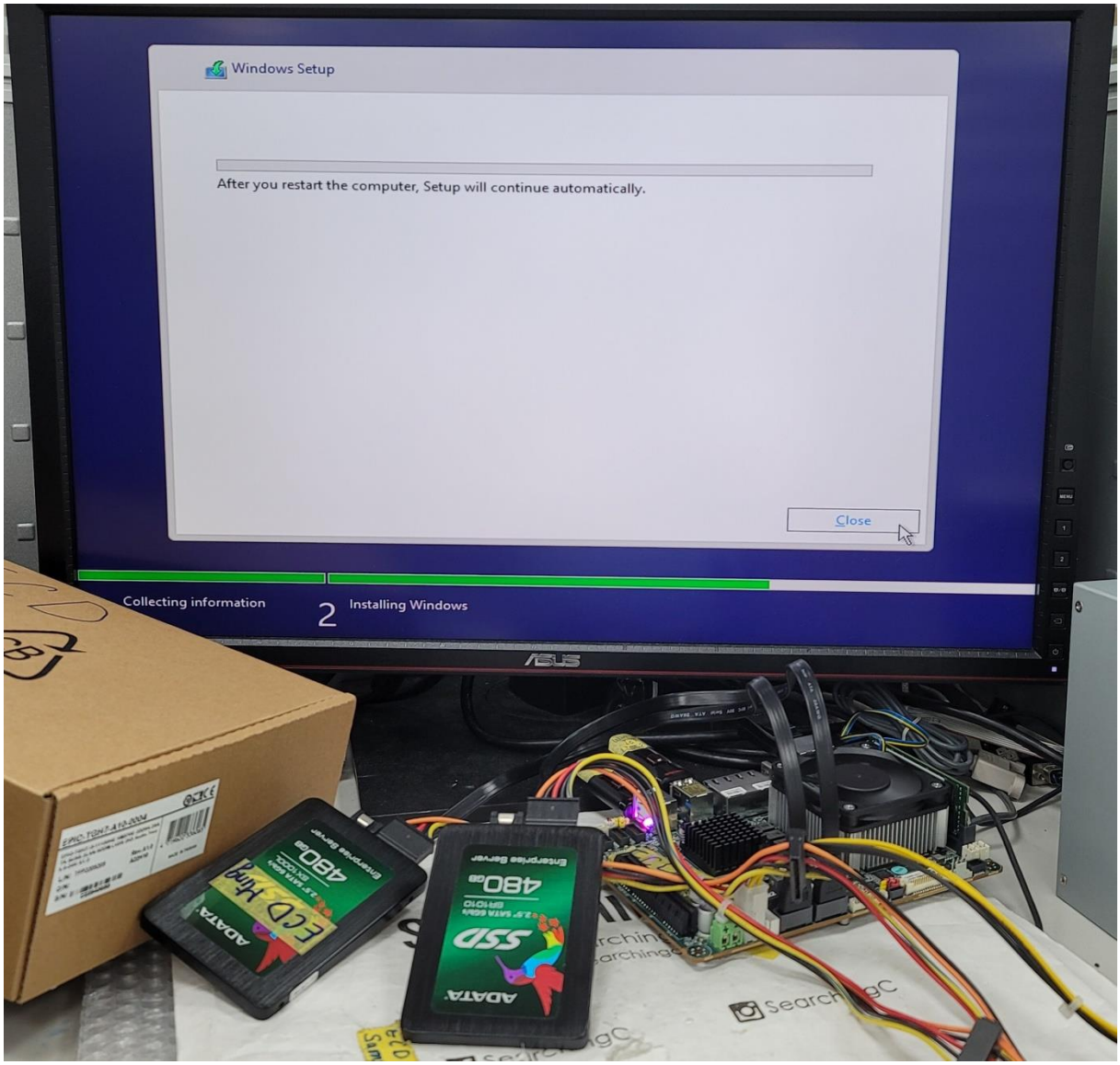
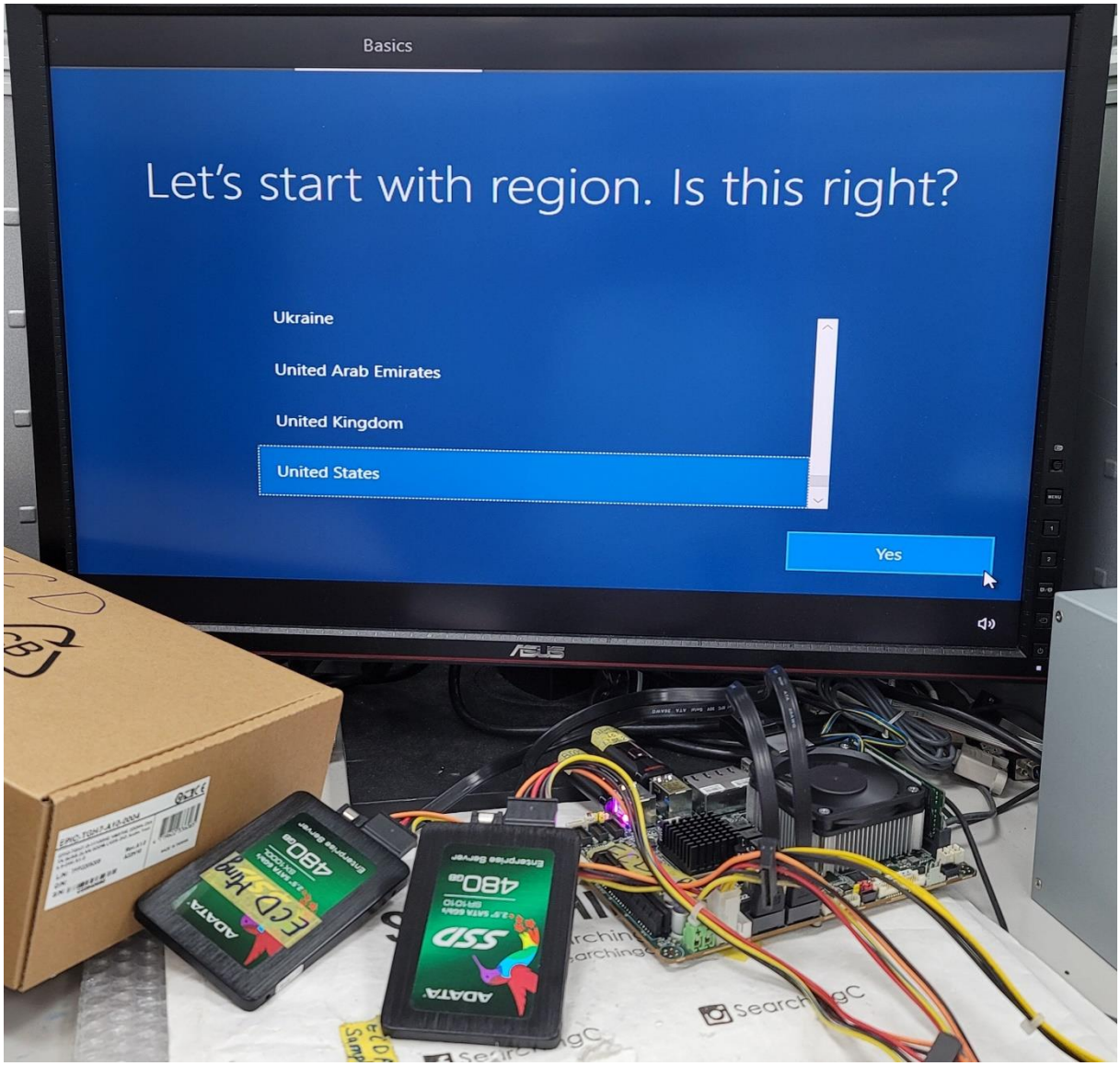
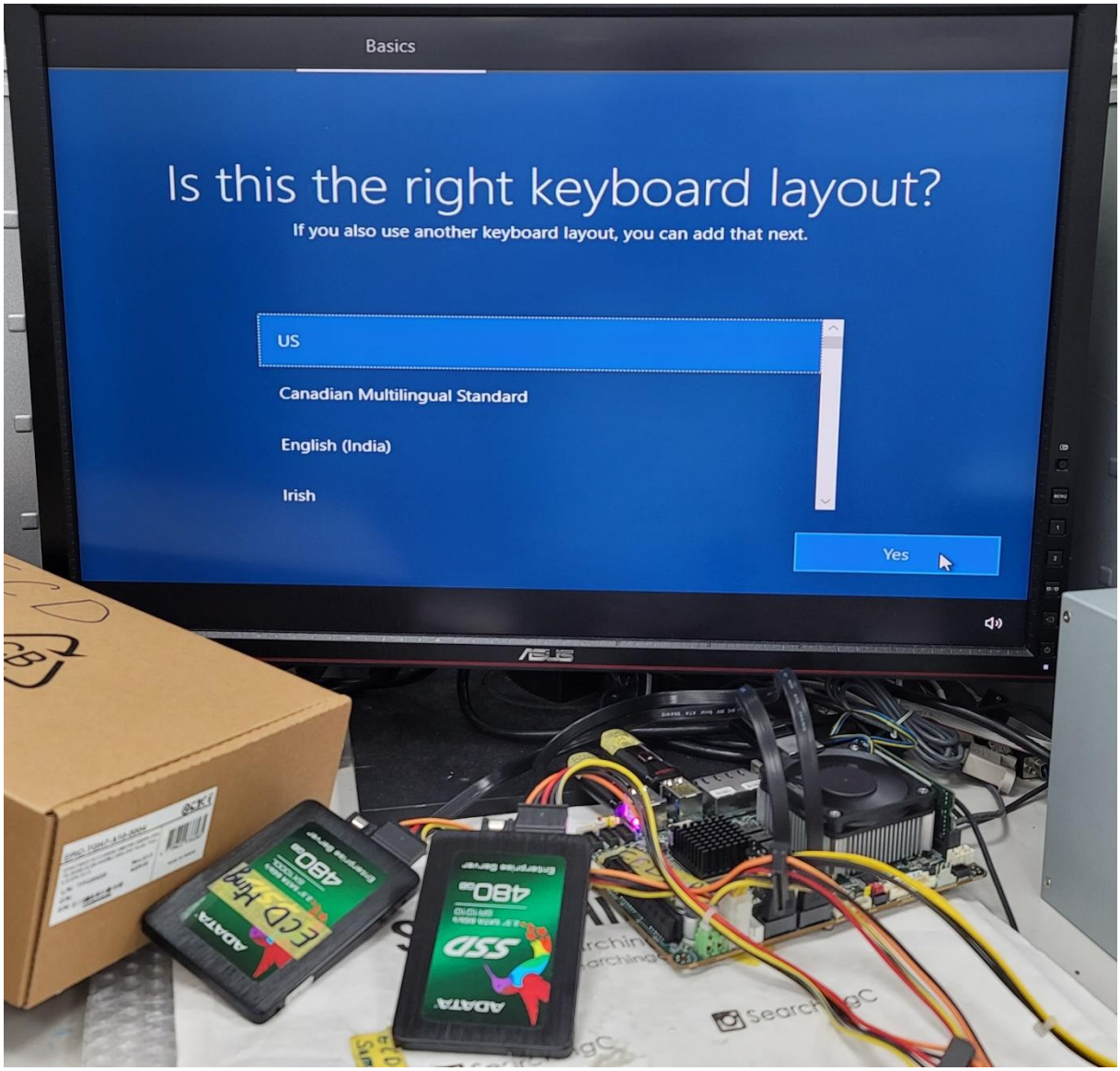
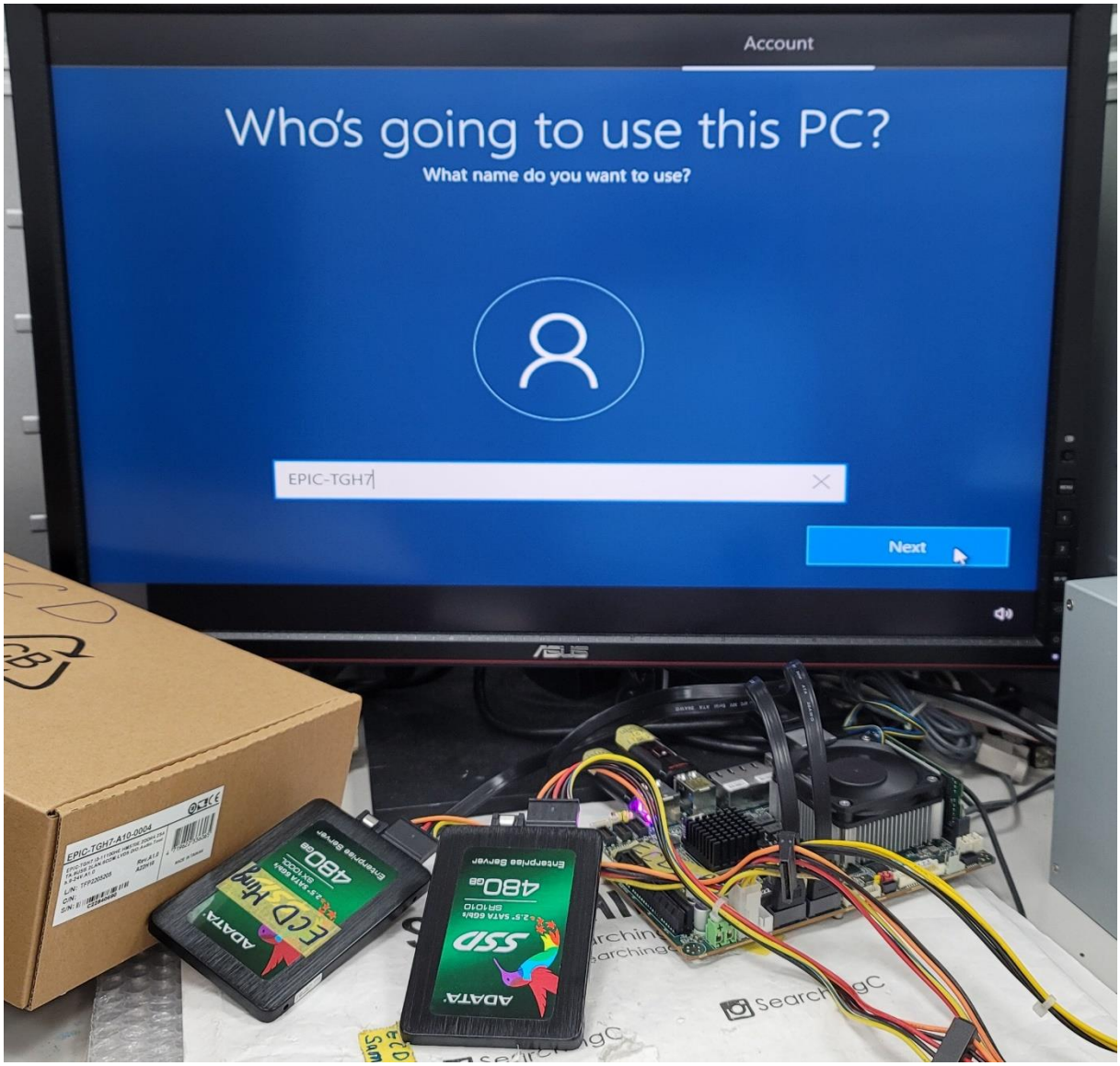
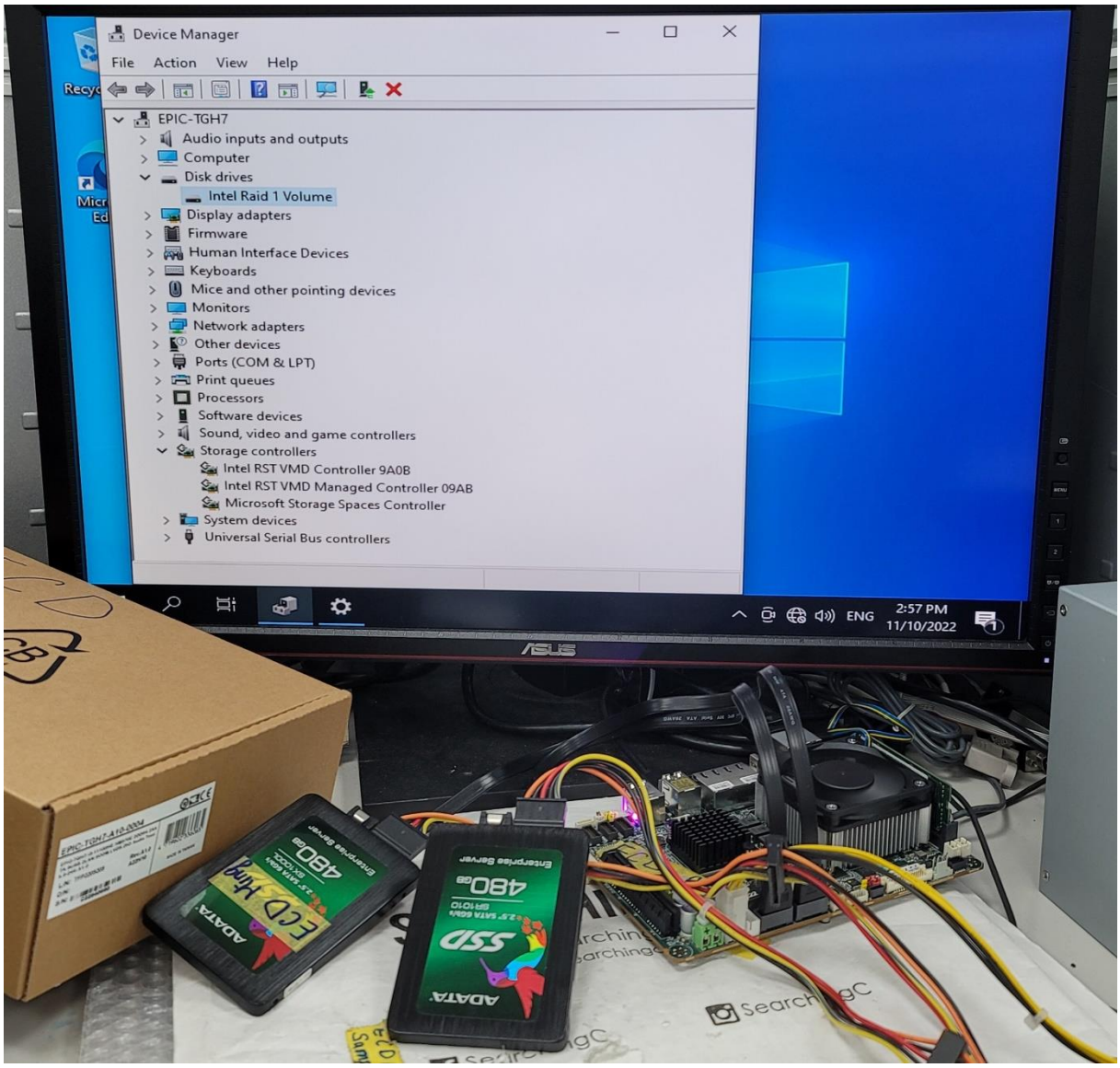

Windows Setup
Installing Windows
Status
Copying Windows files
Getting files ready for installation (98%)
Installing features
Installing updates
Finishing up
Collecting information
2
Installing Windows
ASUS
ADATA
480GB
SSD
ADATA
480GB
SSD


Windows Setup
Installing Windows
Status
Copying Windows files
Getting files ready for installation
Installing features
Installing updates
Finishing up
Collecting information
2
Installing Windows
ASUS
ADATA
480GB
SSD


Windows Setup
After you restart the computer, Setup will continue automatically.
Close
Collecting information
2
Installing Windows
ASUS
ADATA
480GB
SSD
Enterprise Server
ADATA
480GB
Enterprise Server


Basics
Let's start with region. Is this right?
Ukraine
United Arab Emirates
United Kingdom
United States
Yes
ASUS
ADATA
480GB
SSD


Basics
Is this the right keyboard layout?
If you also use another keyboard layout, you can add that next.
US
Canadian Multilingual Standard
English (India)
Irish
Yes
ASUS
ADATA
480GB
SSD


Account
Who's going to use this PC?
What name do you want to use?
EPIC-TGH7
Next
ASUS
EPIC-TGH7-A10-0004
ADATA
480GB
Enterprise Server
ADATA
480GB
Enterprise Server
SSD
ADATA

13. See RAID type in Device Manager