

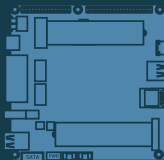
# ODYSSEY- X86J4125 v2

## User Manual



# Package Contents

- ODYSSEY - X86J4125 v2
- User Manual
- International Power Adapter  
(Not included in TELEC version)
- SATA Cable
- Antenna x2
- RTC Battery
- Heat Sink (Assembled)
- Cooling Fan (Assembled)  
(Included in EMMC and Blue version)



ODYSSEY-X86J4125 v2



User Manual x1



International Power Adapter x 1



SATA Cable x 1



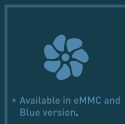
Antenna x 2



RTC Battery x1



Heat Sink  
(Assembled) x 1



Cooling Fan  
(Assembled) x 1



# Specifications



Processor	Intel® Celeron® J4125 Frequency: 2.0-2.7GHz
Coprocessor	Raspberry Pi® RP2040 32bit ARM® Dual-Core Cortex®M0+
Graphics	Intel® UHD Graphics 600 Frequency: 250 – 750MHz
Memory	LPDDR4 8GB
Storage	64GB eMMC V5.1 (in eMMC version)
Wireless	Wi-Fi 802.11 a/b/g/n/ac ® 2.4/5 GHz HT160 Bluetooth® 5.0
Networking	2 x Intel® I226-V PCIe 2.5GbE LAN
Audio	Microphone + headphone Combo Connector
Headers	28-pin header from Raspberry Pi RP2040 40-pin header compatible with Raspberry Pi

USB	USB 2.0 Type-A x2 USB 3.1 Type-A x1 USB 3.1 Type-C x1
Video Interfaces	HDMI2.0a: Up to 4096x2160 @ 60Hz 24bpp DP1.2a: Up to 4096x2160 @ 60Hz 24bpp
Expansion Slots	M.2(Key B, 2242/2280): SATA III, USB2.0, UIM M.2 (Key M, 2242/2280): PCIe 2.0 x4 Micro SD card Socket SIM Card Socket SATA III
RTC	JST 1.0 CR2032 3V
TPM	Built-in fTPM (2.0), optional external TPM 2.0
Power	DC Jack 5.5/2.1mm or Type-C PD DC Jack input: 12-19V DC Type-C input: USB PD
Dimensions	110x110mm
Certifications	FCC, CE, TELEC, UKCA

# Quick Start with ODYSSEY - X86J4125 v2

## Before you Start

Make sure you have the following:

- ① An external monitor
- ② A keyboard and a mouse
- ③ An HDMI Cable

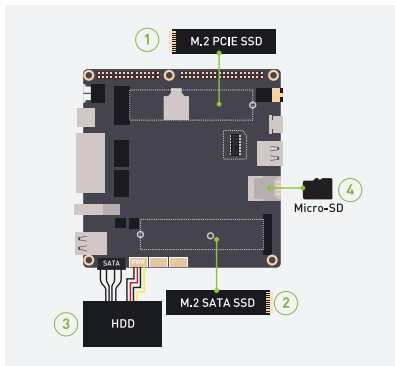


# Attaching External Storage

If you have bought the 64GB EMMC storage version of the ODYSSEY - X86J4125 v2 , you can skip this step. However, if you need more storage for your needs, feel free to follow this step.

There are four methods of adding storage to ODYSSEY - X86J4125 v2

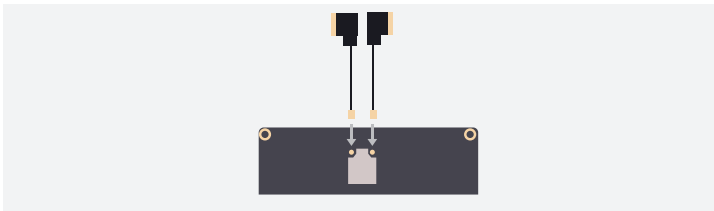
- 1 Through M.2 PCIE Connector
- 2 Through M.2 SATA connector
- 3 Through SATA Connector
- 4 Through Micro-SD Card Slot



Note: Only three storage types support to install an operating system inside (M.2 SATA, M.2 PCIE and SATA), and the Micro SD Card can only be used as external storage.

# Connecting Antennas

Insert the two antennas into the two sockets on the ODYSSEY - X86J4125 v2

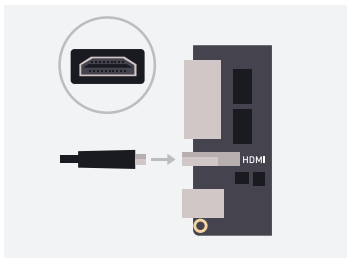


Note: One antenna is for Wi-Fi and Bluetooth whereas the second antenna is for strong 5G connectivity

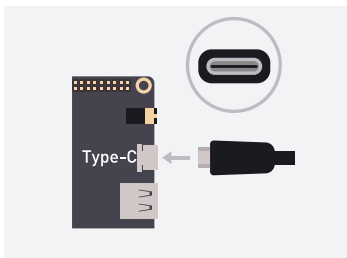
## Connecting to a display

1. There are two ways to connect your ODYSSEY - X86J4125 v2 to an external display

### Method 1

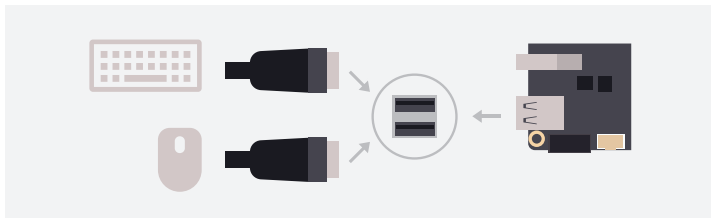


### Method 2



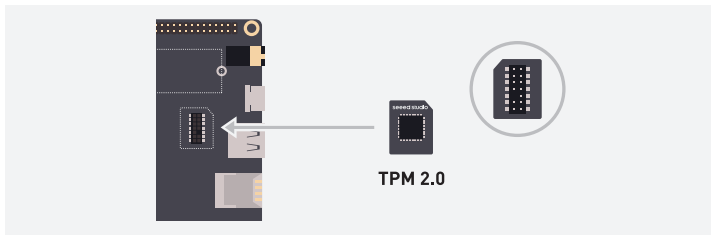
## Connecting to a keyboard and a mouse

Connect your favorite keyboard and mouse to the ODYSSEY - X86J4125 v2 through any of the USB connectors



## Adding external TPM (Optional)

There is a built-in fTPM [2.0]. If you don't need an external TPM, you can skip this step.



Note: Please ensure TPM is placed in the right direction.

# Powering up

1. There are two ways to power up your ODYSSEY - X86J4125 v2.

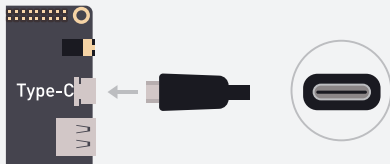
## Method 1

Use the 12V/2A power adapter (provided)

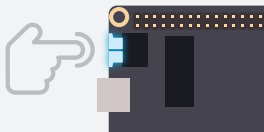


## Method 2

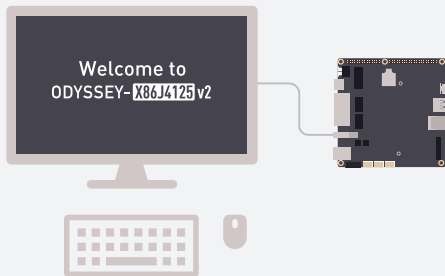
Use a USB Type-C Cable (Supports DP)



2. Press the power button and you will notice the blue power LED turn on



3. Wait a few seconds until it boots into the operating system.



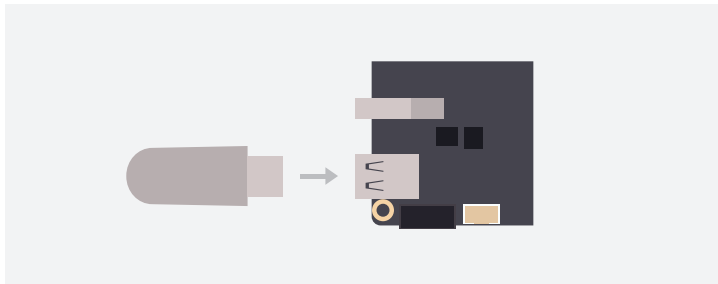


# Installing an Operating System

ODYSSEY - X86J4125 v2 supports both Windows and Linux operating systems. If you have bought the non EMMC version, you could attach an external storage by following the previous steps and install your desired operating system by creating a bootable USB drive. Also, if you have bought the EMMC version with windows pre-installed, you could additionally install Linux according to your requirements.

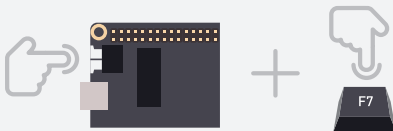
## Step 1

Connect your bootable USB drive into one of the USB ports on the ODYSSEY - X86J4125 v2



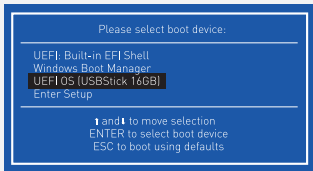
## Step 2

Press the power button and keep pressing F7 key on the keyboard until you see the Boot Manager screen.



## Step 3

Select the connected USB Drive as the boot drive and press enter



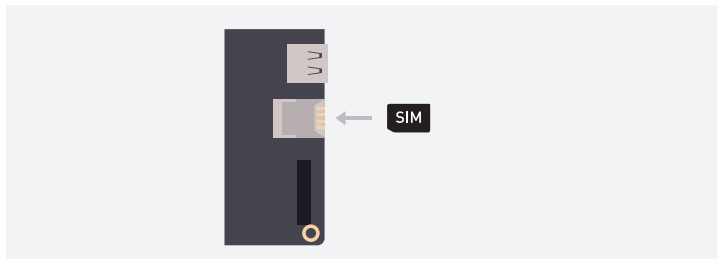
## Step 4

Then follow the instructions on the installation screen to complete installing your desired operating system.

# Adding 4G Cellular Connectivity

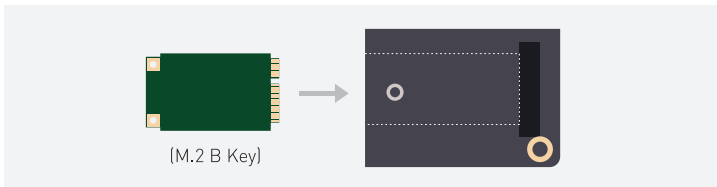
## Step 1

Insert a Micro-SIM Card to the bottom layer of the slot.



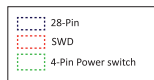
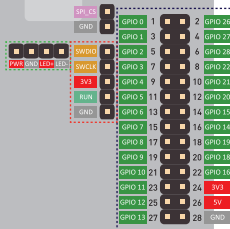
## Step 2

Insert a USB interface 4G module.

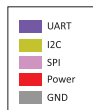
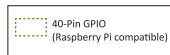
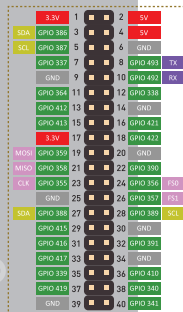


Note: This module is a must have if you want to use the connected SIM card.

# Pinout diagram



ODYSSEY-X86J4125 v2



## FAQ

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**Q:** How can I access the BIOS setup?

**A:** Press the Power Button and keep pressing DEL key until you see the BIOS Setup.

**Q:** I cannot connect to Wi-Fi and Bluetooth

**A:** Check BIOS settings and enable Wi-Fi and Bluetooth from BIOS.

**Q:** ODYSSEY - X86J4125 v2 doesn't power up

**A:** Make sure you use the 12V/2A power adapter provided in the box and check the connection.

- If you have any further questions, please visit [forum.seeedstudio.com](https://forum.seeedstudio.com) or send an email to [techsupport@seeed.cc](mailto:techsupport@seeed.cc)



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