Odyssey Blue: Quad Core Celeron J4105 Windows 10 Mini PC with 128GB external SSD (TELEC)

SKU

110991465

Odyssey Blue J4105 allows you to simply build Edge Computing applications with powerful CPU and rich communication interfaces. The Odyssey Blue J4105, based on Intel Celeron J4105, is a Quad-Core 1.5GHz CPU that bursts up to 2.5GHz. There is also an onboard ATSAMD21 Core, an ARM Cortex-M0+ MCU that allows you to program Arduino on the x86 platform.

Description

Note

Please be aware that the J4105 processor has been discontinued, and therefore we will stop manufacturing ODYSSEY - X86J4105 in the near future. So now we bring you the new ODYSSEY - X86J4125 with the J4125 processor which is more powerful than J4105.

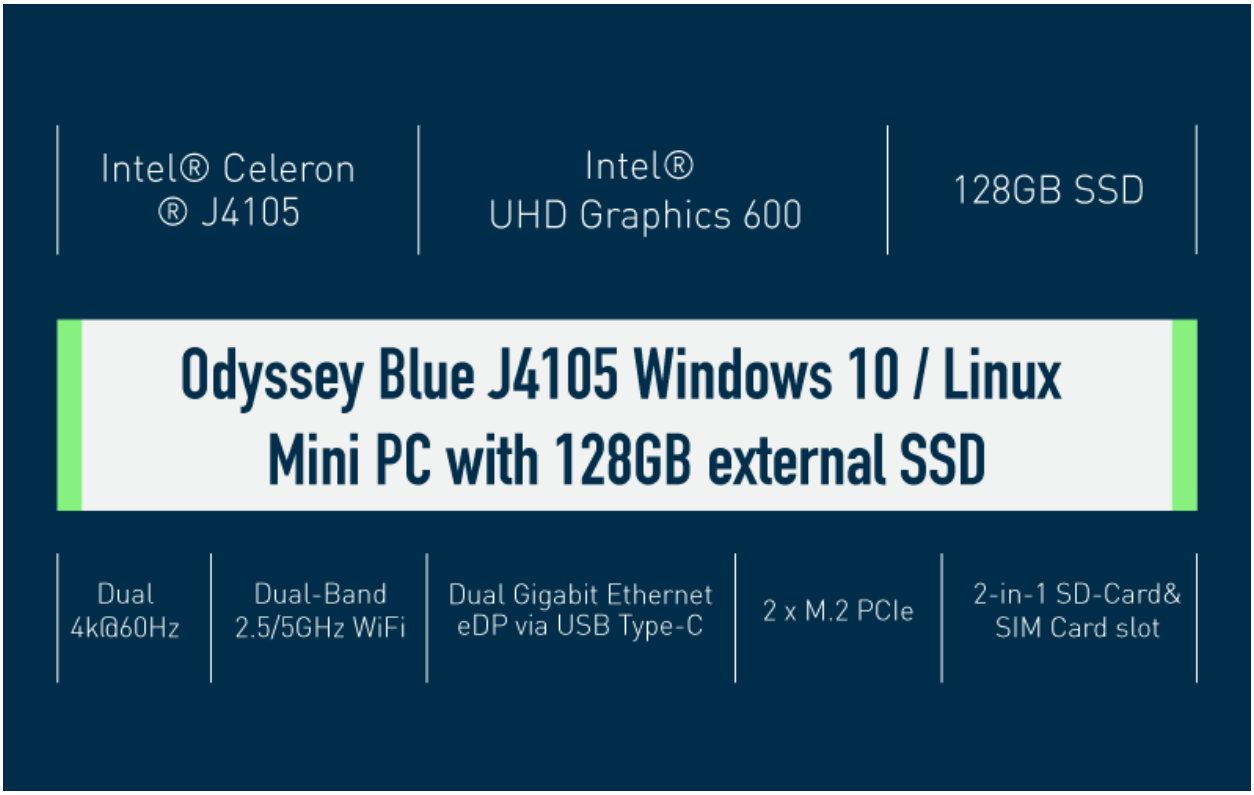
Note

This is the **TELEC Version of the ODYSSEY-BLUE with no power adapter**. Non-Japanese users who needs power supply, please buy the regular version.

Tip

This version of **ODYSSEY - Blue J4105 is pre-packed mini PC with re computer case.** There is no onboard eMMC but is **equipped with 128gb SSD.** The Pre-installed Windows 10 Enterprise has not been activated.

Please note that when you have powered on but the fan does not rotate, it may be due to the following reasons.
1. The CPU itself does not have a temperature sensor. The temperature sensor is on the PCB, close to the CPU.
2. The temperature threshold set in the BIOS is based on the temperature of the PCB, not the temperature of the CPU.
3. There is a delay in the CPU temperature transfer to the PCB.
At this time, please try to let the CPU run at full load for 20 minutes.



Key Features

- **Intel® Celeron® J4105**, Quad-Core 1.5-2.5GHZ
- Dual-Band Frequency 2.4GHz/5GHz WiFi
- Intel® UHD Graphics 600
- Dual Gigabit Ethernet
- Integrated Arduino Coprocessor **ATSAMD21 ARM® Cortex®-M0+**
- Raspberry Pi 40-Pin Compatible
- 2 x M.2 PCIe (B Key and M Key)
- Support Windows 10 & Linux OS
- Compatible with Grove Ecosystem
- No onboard eMMC but **equipped with 128g SSD**
- **Packed with** re_computer case
- Pre-installed Windows 10 (Unactivated)

Applications

- A **powerful Desktop Mini PC that can run Windows and Linux OS.**
- OpenWrt projects and pfSense with Dual Gigabit Ethernet.
- Hard Drives, SSD, GPU, 4G, and even 5G cellular network connectivity with two of M.2 PCIe (B Key and M Key)
- NAS (Network-Attached Storage)
- High-performance Virtual Router
- 4G LTE Gateway
- Program Arduino with onboard ATSAMD21 Core, an ARM Cortex-M0+ MCU

Description

Odyssey Blue J4105 128 GB is a powerful mini PC with super low power consumption. It's a perfect device for industrial and commercial applications. You can use it as office equipment or a compact gaming PC. The compact design makes it easy to keep your desk clean and neat. With 4k HD video output, you can easily build your own home entertainment with ODYSSEY Blue.

Windows 10 & Linux Mini PC. Dual 4K

We also have **Windows 10 pre-installed**. Just simply connect it to a mouse, a keyboard and a monitor with the ODYSSEY Blue. You can start playing your favourite game right away.

Are you a Linux user? Just install your favourite Linux distribution! ODYSSEY Blue provides full support for popular Linux OS, like Ubuntu, Mint, Manjaro, and etc.

The J4105 supports Intel **Hyper V virtualization** and can be virtualized with Promox or VMware ESXi to create multiple instances or install multiple systems which makes it perfect for homelab option.

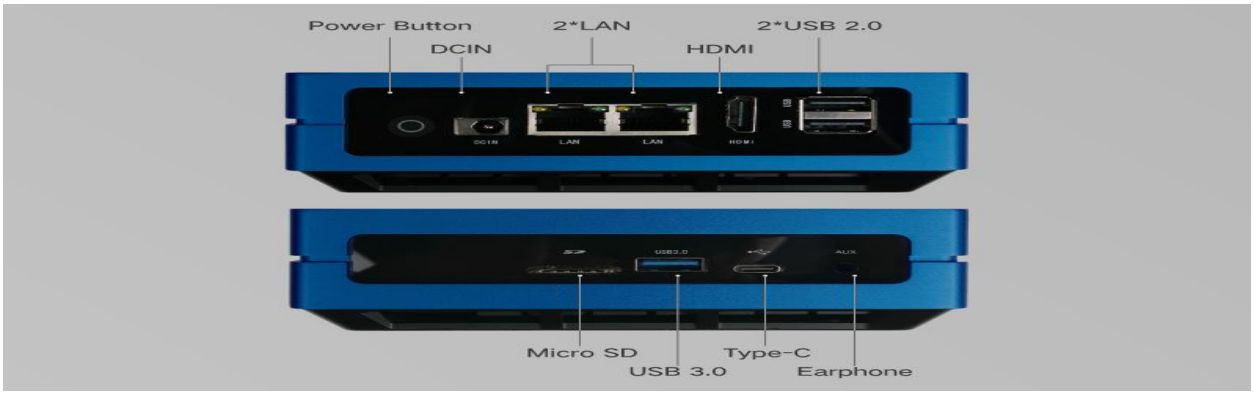
For more information, please check this blog for ESXi installation.

With **Dual Gigabit Ethernet**, you can build the OpenWrt project and pfSense with ease. There are **also two of M.2 PCIe (B Key and M Key)**, which enables various expandable capabilities including Hard Drives, SSD, GPU, 4G, and even 5G cellular network connectivity.


PRESS START
X86 Single Board Computer
Powered by Seeed
Media and
Entertainment Center
www.seeedstusio.com


4k
5GHz
2.4GHz

The ODYSSEY Blue J4105 128 GB is more than just a computer, with the Arduino Co-processor onboard, it can be used to connect with sensors, gyroscope, and much more. Why don't you start exploring your IoT journey from here! We have over 300 Grove modules and Sensors for you to choose from.



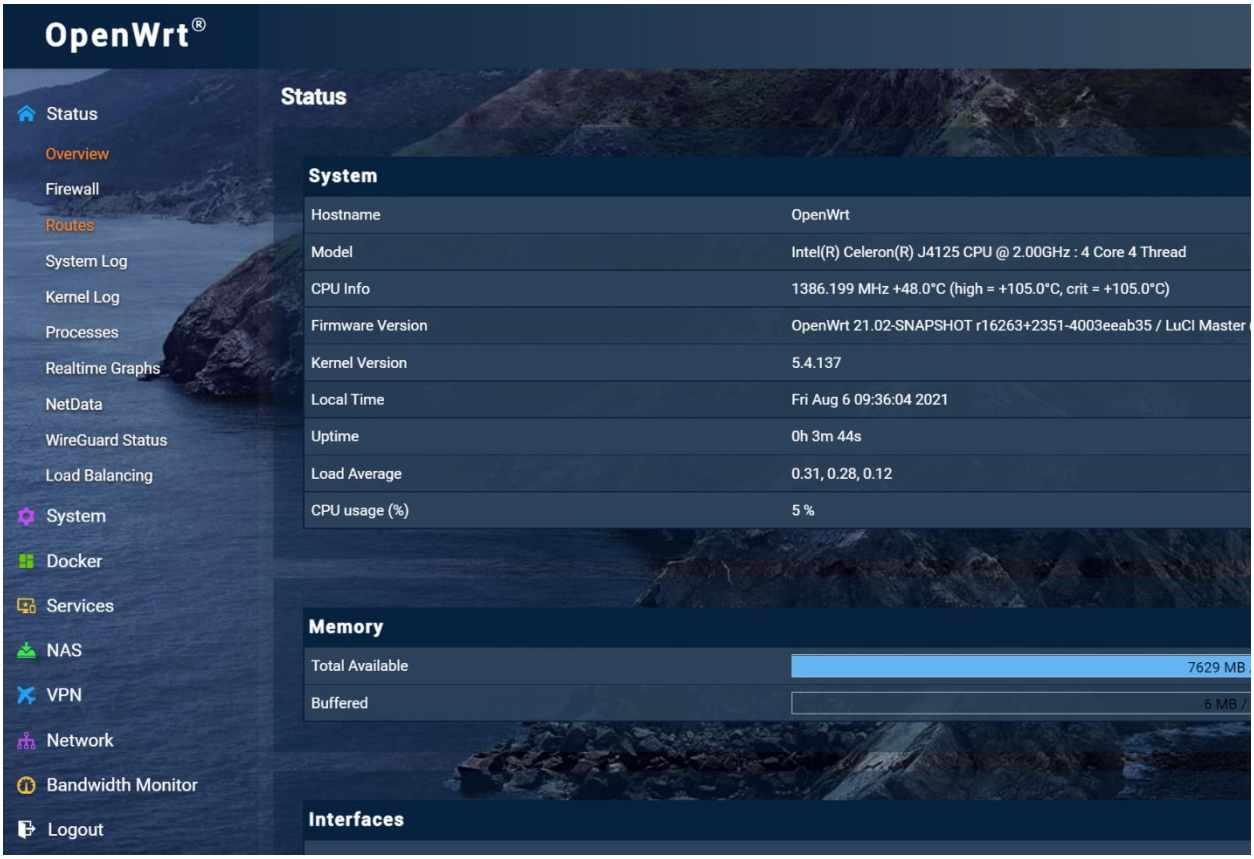
At Seeed, you can also design your solution all in one page where you choose the desired SBC, any compatible mission board (HATs, expansions) that you want, I/O modules, and nicely place them in the suitable enclosures/cases such as re_computer Case. Rest assured, as we have tested full compatibility for all of the products listed on the page. Try it now here and save you time to find hardware compatibility!

OpenWrt Supported

You can flash OpenWrt firmware to this board and turn this board into a software router!

OpenWrt®
WIRELESS FREEDOM

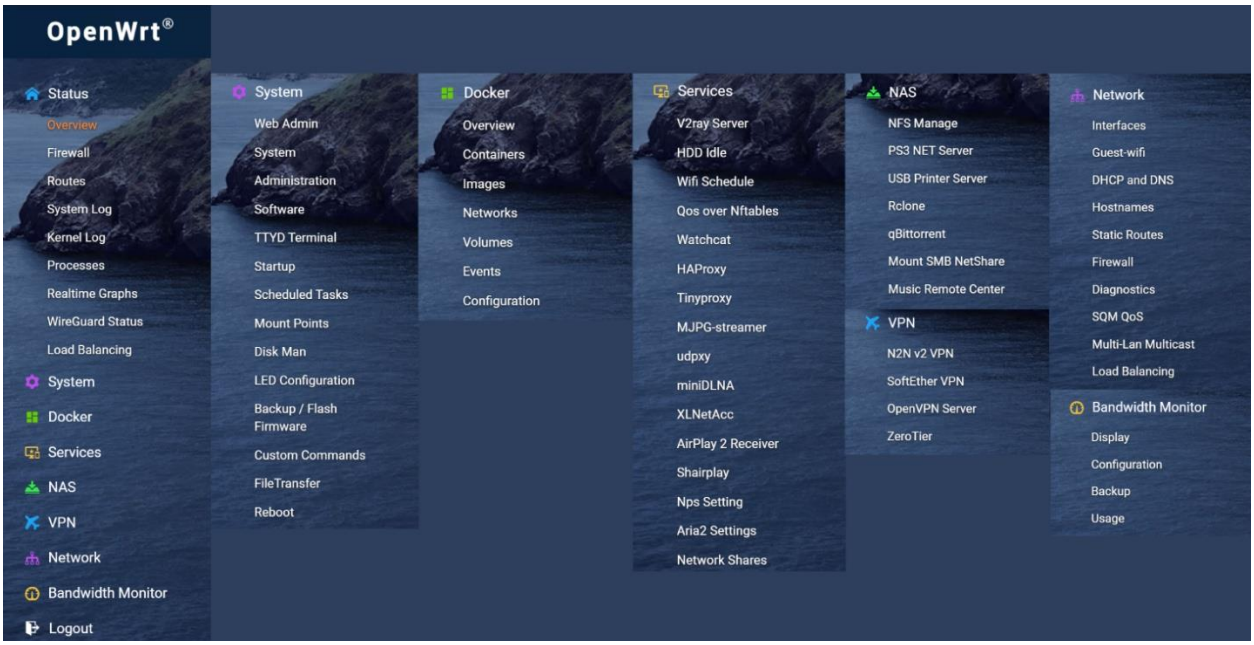
OpenWrt is an open-source Linux operating system which runs on embedded devices/ routers. It offers more features, performance, and security than a traditional router. It has a filesystem that's fully writable and includes a package management system. You can make use of these packages to suit your applications in various ways. Once you connect this board to your home network and access the router from a web browser, you will be presented with a beautiful and interactive dashboard as follows.



You can navigate in this dashboard, and you will have access to a bunch of features such as:

- Increase overall network performance when multiple devices are connected
- Share files between devices via an external storage drive connected directly to the router
- Increase network security
- Run a BitTorrent client from the router
- Connect a printer directly to the router to create a networked printer
- Limit bandwidth usage of a particular device in the network
- Active queue management
- Real time network monitoring
- Create Dynamic DNS
- Set Up a VPN client or server
- Block ads on the network

By utilizing the above features, you will have unlimited possibilities with this mini router!

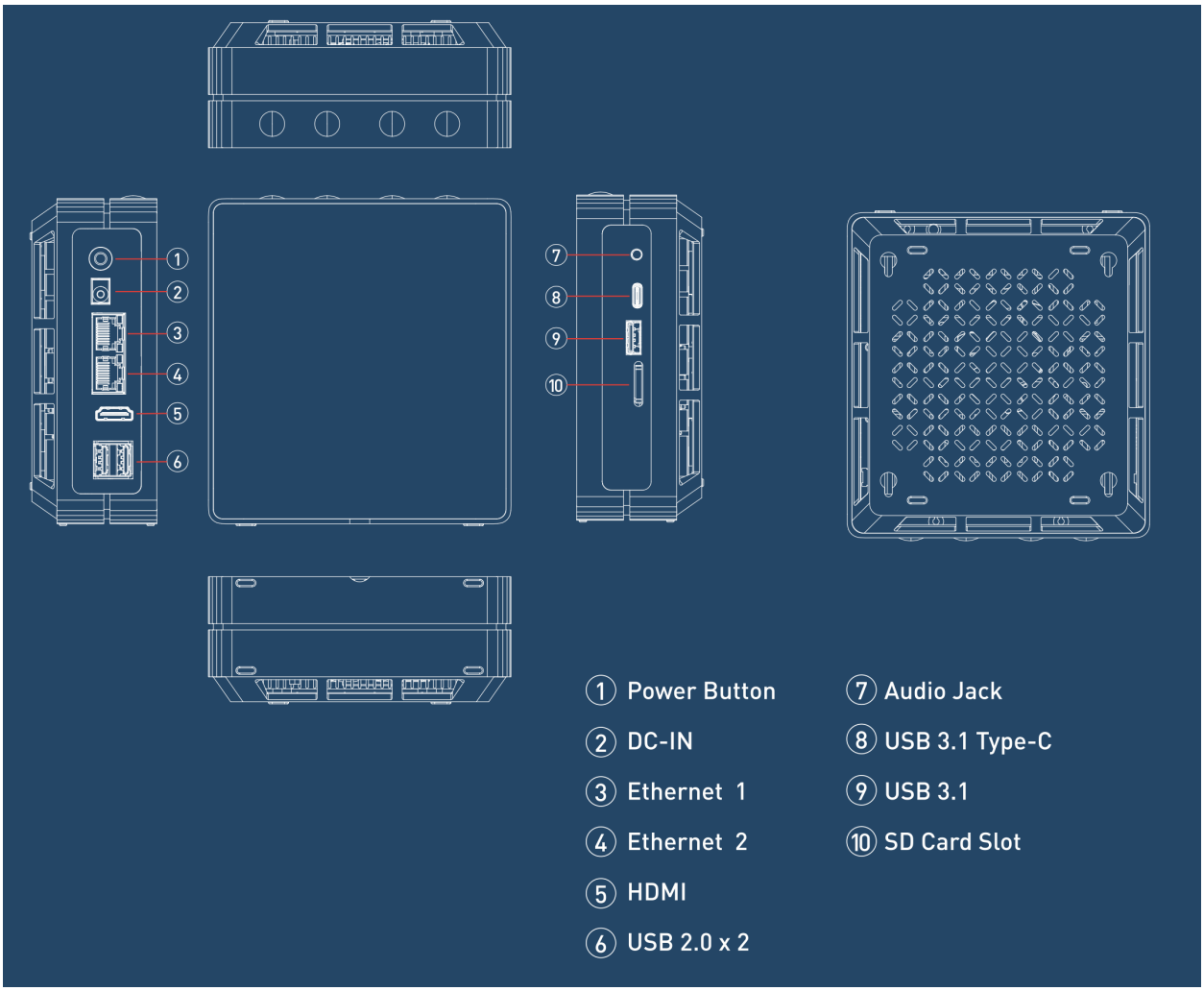


Specification

Components	ODYSSEY Blue J4105 128 GB
Processor	Intel® Celeron® J4105 (Frequency: 1.5 - 2.5GHz)
Coprocessor	Microchip® ATSAMD21G18 32-Bit ARM® Cortex® M0+
Graphics	Intel® UHD Graphics 600 (Frequency: 250 – 750MHz)
Memory	LPDDR4 8GB
Storage	External 128GB SSD
Wireless	Wi-Fi 802.11 a/b/g/n/ac @ 2.4/5 GHz HT160
Networking	Intel® I211AT PCIe Gigabit LAN, Supports Wake-On-LAN, Supports PXE

Audio	Microphone + headphone Combo Connector
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 ×4; Micro SD card Socket; SIM Card Socket; SATA III
TPM	Built-in TPM (2.0)
Power	DC Jack 5.5/2.1mm or Type-C PD; DC Jack input: 12-19V DC; Type-C input: 15V DC
Dimensions	130x120x50mm
Certifications	FCC, CE, TELEC

Hardware Overview



Part List

- ODYSSEY - X86J4105 x 1
- User Manual x 1
- Antenna x 2(Assembled)
- RTC Battery x 1(Assembled)
- Heat Sink(Assembled)
- Cooling Fan (Assembled)
- re_computer case x 1
- External 128g SSD (Assembled) x 1

Note

If you are looking for open source SBC for commercial and industrial needs. Seeed provides customization service based on BeagleBone series boards. Seeed Studio BeagleBone® Green(BBG) and Seeed Studio BeagleBone® Green Wireless (BBGW) provide more stable industrial deployment scenarios.