

INDUSTRIAL PRODUCT DATASHEET

ODYSSEY – STM32MP157C Evaluation Board Raspberry Pi 40-Pin Compatible with SoM

ODYSSEY – STM32MP157C Evaluation Board combines a Raspberry Pi 40-pin compatible carrier board with STM32MP157C SoM for industrial, medical, wearable, and smart home applications.

SKU

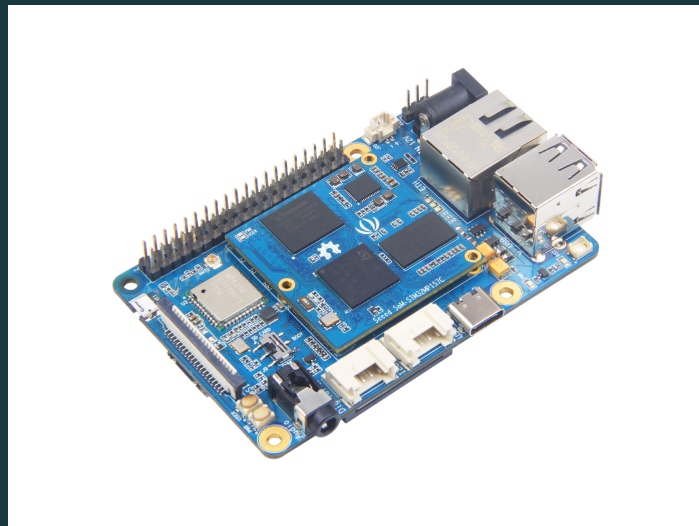
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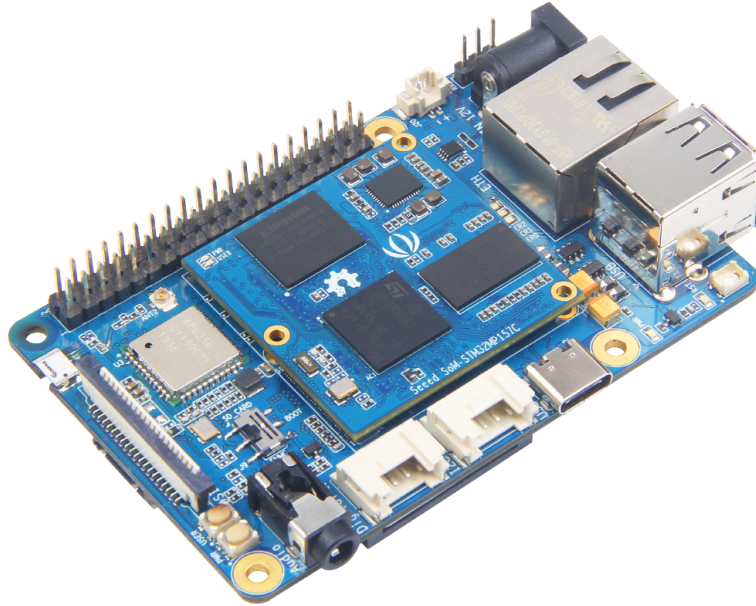
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PRICE

\$54.90(Excl. VAT)



Overview



The ODYSSEY – STM32MP157C is a compact, open-source evaluation board built around the STM32MP157C dual-core Arm Cortex-A7 processor with integrated Cortex-M4, provided as a SoM with MPU, PMIC, and RAM on a Raspberry Pi 40-pin compatible carrier board. It supports industrial, white goods, medical, high-end wearables, and smart home applications.

Key Features

Key Feature

- Dual-core Arm-Cortex-A7 core processor with Cortex-M4 integrated
- SoM(system on module) includes MPU, PMIC, RAM.
- Raspberry Pi 40-Pin Compatible Carrier Board.
- Compact size and powerful.
- Open-source hardware/SDK/API/BSP/OS.

Distributors

Distrelec (Europe)

Digi-Key Corporation(GLOBAL)

Mouser Electronics, Inc (GLOBAL)

BOTLAND B. DERKACZ SP.J.(Poland)

Description

The ODYSSEY – STM32MP157C is a single board computer and evaluation board that based on STM32MP157C, a dual-core Arm-Cortex-A7 core processor operating at 650Mhz. The processor also integrates an Arm Cortex-M4 coprocessor, which makes it suitable for real-time tasks. The ODYSSEY – STM32MP157C is created in a form of SoM(system on module) plus a Carrier board. The SoM has consisted of the MPU, PMIC, RAM and the carrier board is in Raspberry Pi form factor.

The carrier board includes all the necessary peripherals including Gigabytes Ethernet, WiFi/BLE, DC Power, USB Hosts, USB-C, MIPI-DSI, DVP for the camera, audio, etc. With this board, customers can fast evaluate the SoM and deploy the SoM on their own carrier board easily and quickly.

Specification

SoM – STM32MP157C

- MPU: STM32MP157C
 - 32-bit dual-core Arm Cortex-A7
 - 32-bit Arm Cortex-M4 with FPU/MPU
- PMU: ST PMIC STPMIC1A
- RAM: 512MB DDR3 RAM
- Flash: 4GB EMMC
- Peripherals: 3 x Board-to-Board 70-Pin Connectors
- Size: 38mm x 38mm

Carrier Board

- Peripherals
 - 2 x USB Host
 - 1 x Gigabit Ethernet

- 1 x 3.5mm Audio
- 1 x MIPI DSI for Screen
- 1 x DVP for Camera
- 2 x Grove (GPIO & I2C)
- 1 x SD Card Slot(on the back)
- WiFi/BLE
 - WiFi 802.11 b/g/n 2.4GHz
 - Bluetooth 4.1 with BLE
- LED: 1 x Reset 3 x User 1 x Power
- Power: 1 x DC Jack 12V~24V/2A (12V/2A power input is recommended) 1 x USB Type-C
- Button: 1 x Reset 1 x User 1 x Switch
- Dimensions: 56mm x 85mm

Carrier board Pinout Diagram

Block Diagram

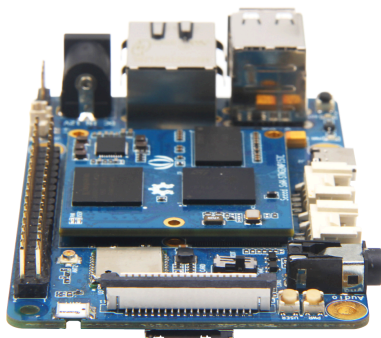
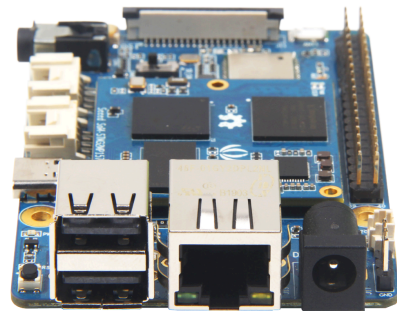
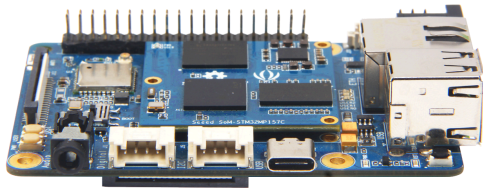
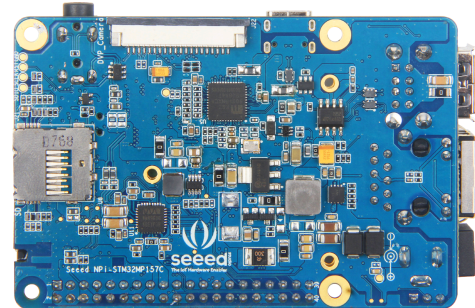
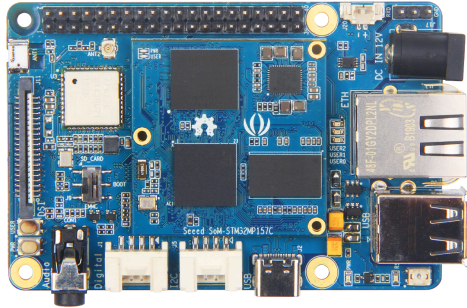
Applications

- Industrial (CAN-Ethernet gateways etc)
- White goods(refrigerators, microwaves etc)
- Medical(data loggers etc)
- High-end wearables(VR device etc)
- Smart Home Devices

Part List

- ODYSSEY – STM32MP157C x 1
- Screws x 4
- Nuts x 4

Product Gallery



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Compliance & Logistics



HSCODE	8517180050
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/ODYSSEY-STM32MP157C-p-4464.html>
- [STM32MP157C Datasheet](#)
- [ODYSSEY - STM32MP157C SCH](#)
- [STM32 Reference Guide](#)

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