

USBridgeSig

USBridgeSig transports comes with 2 models, BASE model with USB clean host ports and X model with Digione Signature or other I2S DAC as add-on. Depending on models USBridgeSig have different outputs. Feeding your DAC through USB and DigiOne Signature is using coaxial/bnc. Depending on your DAC inputs need to make a choice.

USBridgeSig cpu is RaspberryPi CM3+ Lite Module. The CM3+ Compute Module 3+ contains the guts of a Raspberry Pi 3 Model B+ (the BCM2837 processor and 1GB RAM).

Specifications:

3 x USB 2.0 Host: 1 on rear side marked as USB CLEAN, 2 on front side marked as Wi-Fi/BT

(USB 2.0 ports capable of delivering up to 900mA)

1 x HDMI (Rear side).

1 x Gigabit Ethernet Port (AX88179 chipset)

MicroSD card slot for OS (8GB or above)

Power : 5V/3A through USB-C connector

DigioneSignature Clean Power: 5V/1A adaptor source or battery pack power 5v to 9v range.

LED Status: power (PWR) green led shows the power status and ACT red led shows the SD card activity.

Note: All USB host ports are with over current protection circuit.

Software:

Allo USBridgeSig comes with preloaded OS as per user choice. All OS drivers are preloaded (Ethernet driver)

Supporting OS details:

DietPi,
Volumio,
Moode,
RoPieee.

USB audio Drivers are available by default on OS, additional drivers not required for USB DACs. USB dacs are plug and play. According to the OS/Players audio device (USB dacs or Digione) has to select on web GUI to play the audio, refer configuration Manual available on Allo.com website.

Dietpi-configuration manual

Volumio Configuration Manual

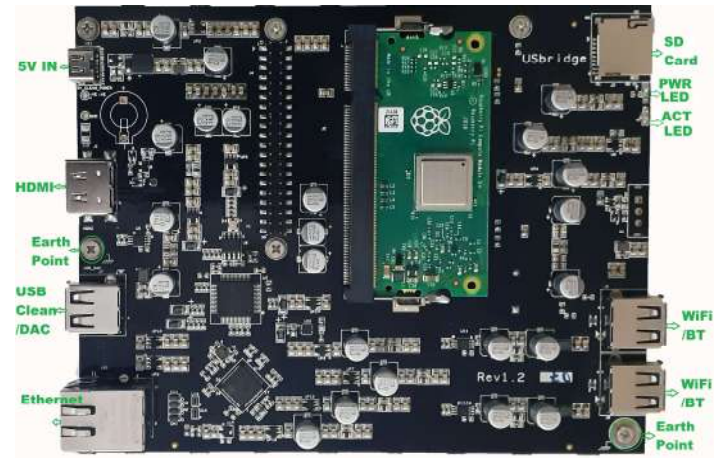
OS Update:

Note : On OS update ASIX Ethernet drivers need to be updated, all preloaded OS coming with updated driver, this change submitted to RPI mainline kernel and yet to merge by Raspberry Pi kernel maintainers. Till the time the update must be done manually after the rpi-update.

Asix driver source available on

<https://github.com/allocom/USBridgeSig/tree/master/ethernet>

- This device has also been granted a registration number by the FCC under part 68 rules.
- This product bears the CE marking indicating compliance with the 89/336/ EEC directive.
- Modifications to this product not authorized by allo.com could void FCC Approval terminating end user's authority to use this product.

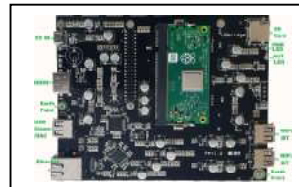


USB Bridge SIG

1. US Bridge input-output ports details

- 1.1.1. **5V IN:** Is 5V/3A input to the board having USB type C connector.
- 1.1.2. **HDMI:** Is the HDMI output from the board.
- 1.1.3. **Earth point:** Is the earth connection to the board (Optional).
- 1.1.4. **USB clean/DAC:** Is the DAC output from the board.
- 1.1.5. **Ethernet:** Wired gigabit ethernet connection. Tested Speed is 310 Mbps.
- 1.1.6. **Wi-Fi/BT :** port for connecting USB Wi-Fi/BT devices.
- 1.1.7. **ACT LED:** Red LED Indicates activity of the board.
- 1.1.8. **PWR LED:** Green LED indicates power of the board.
- 1.1.9. **SD Card:** slot for inserting SD card.

2. Installation Requirements



US Bridge



SD Card



Ethernet Cable (RJ45)



Power Adaptor (5V, 3A)

Quick Installation Guide (this document)

Compliance and Safety Information

Installation Precautions

- To prevent fire or shock hazard, do not expose this product to rain or any type of excess moisture. If accidentally dropped into water, the Power Adaptor should immediately un-plugged from the wall along with the Ethernet cables.
- **FCC and CE Notice**
- This equipment has been tested and found to comply with the limits for a Class B Digital device in accordance with the specifications in part 15 of the FCC rules.

One Year Limited Hardware Warranty

allo provides a one (1) year hardware warranty. allo warrants to customer that this product will conform to its published specifications and will be free from defects in material and workmanship at the time of delivery and for a period of one year thereafter. Without limiting the foregoing, this warranty does not cover any defect resulting from, (i.) any design or specification supplied by an entity other than allo, (ii.) non observance of technical operating parameters (e.g., exceeding limiting values), or (iii.) misuse, abuse to abnormal conditions or alteration by anyone other than allo.

1.3. Hardware Installation

Please observe the following steps to install the US Bridge.

1.3.1. SD Card (above 8GB) Programmed need to be inserted to the SD Card slot.

1.3.2 Ethernet cable need to be connected to access local network.

1.3.3 HDMI can be connected to monitor/TV.

1.3.4 RPI CM3+ Lite Module is connected to the available SODIMM Slot.

1.3.5 USB type 2 can be used to access for Keyboard/mouse/USB DAC. USB port (Wi-Fi/BT) can feed up to 900mA