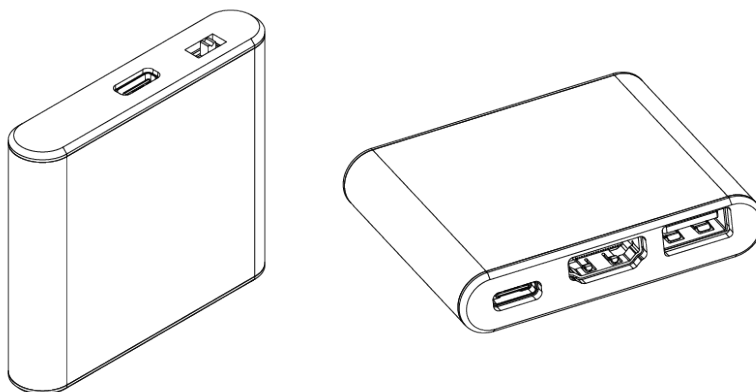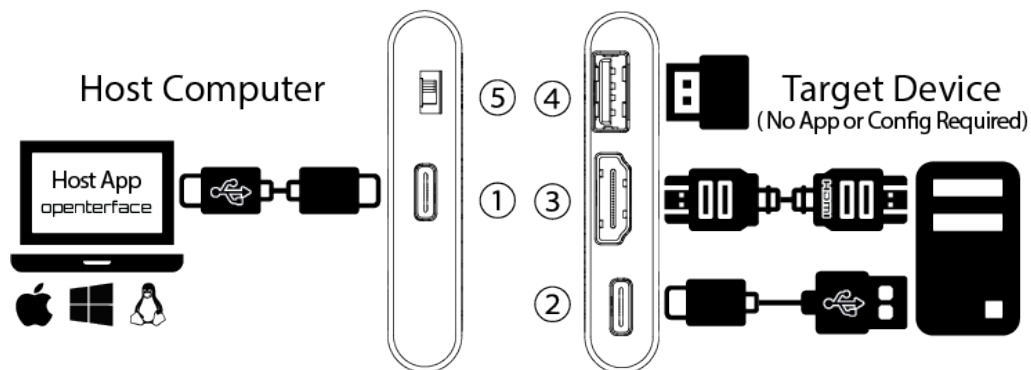# Openterface Mini-KVM
Datasheet

Overview

Openterface Mini-KVM is a feature-rich, production grade, open-source, and community-driven device. It offers a lightweight and speedy KVM-over-USB solution, enabling you to control a headless computer (referred to as the Target computer) directly from your own laptop or desktop computer (referred to as the Host computer), via a simple USB and HDMI connection. This compact approach eliminates the need for additional keyboards, mice, monitors, or any network configuration, simplifying your setup and enhancing efficiency.

Specifications

Parameter name	Characteristics
Product Name	
Brand Name	Openterface
Product Model	Mini-KVM
Power	
Connection Type	USB-C powered. No external power supply required.
Video	
Max Video Input	Up to 3840x2160@30Hz, via HDMI (Note: With the use of an adapter, it can also support VGA, Micro HDMI, DVI, and other video input sources)

Supported Video Resolutions	Up to 1920x1080@30Hz
Video Compression Methods	YUV, MJPEG
Latency	Under 140 milliseconds
Audio	
Audio Capture Mode	HDMI embedded audio
Environmental	
Operating Temperature	0°C to 40°C
Storage Temperature	-10°C to 50°C
Humidity	80% RH
Size and Weight	
Length x Width x Height	61 x 13.5 x 53 mm
Weight	48g

Connections

Connectivity / Interfaces	
① USB-C Port (Female)	As a USB device port, connecting to the Host computer for data transfer via built-in USB hub
② USB-C Port (Female)	As a USB device port, connecting to the Host computer for emulating keyboard and mouse HID output via built-in USB hub
③ HDMI Input Port (Female)	HDMI source input from the Target computer

④ Switchable USB-A 2.0 Port (Female)	As a USB host port, utilized by either the host computer or the target computer at any given time, but not simultaneously
⑤ Toggle Switch	For toggling the connection of the USB-A 2.0 port between the host and the target computer

Applications

Openterface Mini-KVM is the perfect companion for a wide range of users and scenarios:
- IT professionals troubleshooting servers
- Technicians servicing ATMs, VLTs, and kiosks
- Developers managing edge computing devices
- Tech enthusiasts experimenting with single-board computers
- Professionals requiring secure local operations on network segregation, such as those managing cryptocurrency assets
- Anyone in need of frequently integrated workflows between personal and work computers.

Open Source Software

To use this mini-KVM, the host computer must have one of the following host applications installed:
- Openterface_MacOS: For macOS support. The macOS app is also available on Apple's App Store by searching for "Openterface".
- Openterface_QT: For Windows and Linux Support.

You can follow the installation instructions on the respective GitHub repositories. These open-source host applications are currently under active development. Support for Android and web extensions will be available soon.

Open Source Hardware

The hardware part of this device is also open source. You can check out the repository for more details on the Bill of Materials (BOM), schematics, and other documentation. Visit our GitHub page Openterface_Mini-KVM_Hardware to explore the project's hardware aspects further.

Stay Updated and Connected

Please visit our website at https://openterface.com/ and join our Reddit community at r/Openterface_miniKVM. Here, you can stay up-to-date with the latest developments, receive technical support, and connect with fellow users.