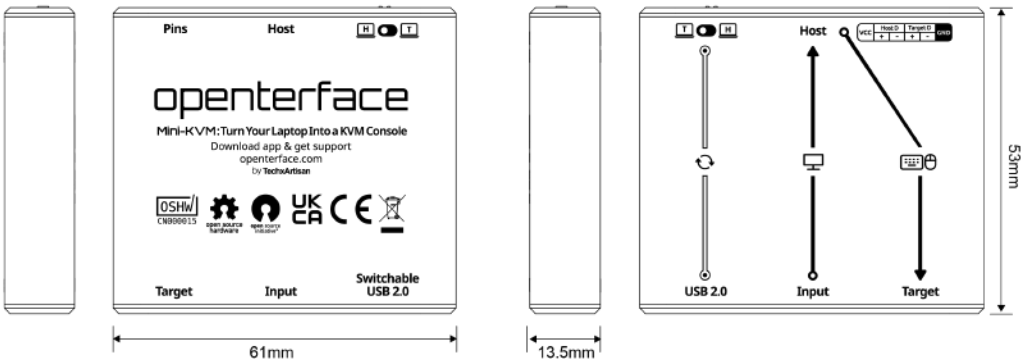
Openterface Mini-KVM
Datasheet

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

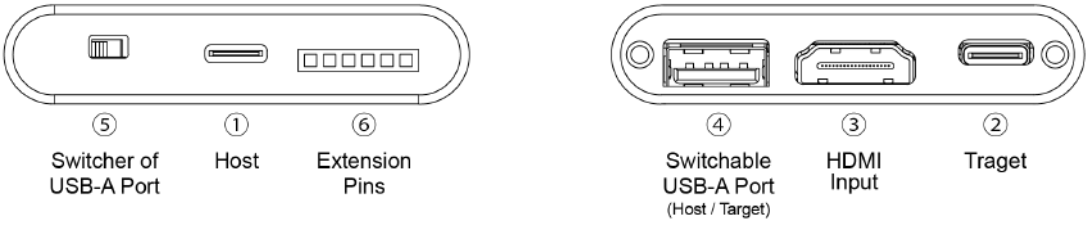
Parameter name	Characteristics
Product Name	Openterface Mini-KVM
Manufacturer	TechxArtisan Limited
Product Name / Model / Contents	
Mini-KVM Basic (392-OP-MINIKVM-BASIC) Contents: 1. Openterface Mini-KVM 2. Quick Start Guide	

Mini-KVM Toolkit (392-OPMINIKVMTOOLKIT) Contents: 1. Openterface Mini-KVM 2. Quick Start Guide 3. Toolkit Bag (165 x 110 x 50mm) 4. Extension Pin Cap 5. HDMI Male-to-Male Cable (0.3m) 6. Type-C Male to USB-A Male Cable (0.3m) with USB-A Female to USB-C Male Adapter 7. Type-C Male-to-Male Cable (1.5m) with USB-C Female to USB-A Male Adapter	
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

Accessories for Toolkit

Item / Model Number / Description	Image
HDMI Male-to-Male Cable Model: OP-03-CABLE30-HDMI Length: 0.3m / ~12" Colour: Black Use: High-definition HDMI video transmission	
Type-C to USB-A Cable with Adapter Model: OP-04-CABLE30-C2A Length: 0.3m / ~12" Colour: Black Adapter: USB-A Female to USB-C Male Use: Data transfer / KVM control	
Nylon Type-C Cable with Adapter Model: OP-05-CABLE150-C2C Length: 1.5m / 4' 11" Colour: Orange Adapter: USB-C to USB-A Data Transfer: Up to 10Gbps Charging Power: 240W	

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
⑥ Extension Pins	For more information, please check Extension Pins for developer use.

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.

Softwares for the Host Computer

To get this device up and running on **macOS, Windows, Linux, or Android**, install one of our available apps from the relevant app platforms or build from source using our GitHub repositories.

Open Source & Compliances

Openterface apps are **AGPL-3.0** licensed, with active development by TechxArtisan. The device is **OSHWA-certified** (UID CN000015), ensuring open access to all schematics and source code on GitHub: Openterface_Mini-KVM_Hardware.

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