



EPC515 Smart USB Sharing Box

About this item

This HDMI to USB Share video capture board with HDMI bypass can support resolutions up to 4K@60 (via the bypass path) while simultaneously streaming the audio and video signal at 1080p@60 to a USB connected PC for capture or re-broadcast. Also with add up input special video timing stabilization feature helps to ensure that the USB capture stream won't lock up or drop, even if the HDMI input source is intermittent or disconnected. This makes your live streaming stable and non-stop.

USB capture is accomplished using the UAC (USB Audio Class) and UVC (USB Video Class) standards, allowing the unit to support most common video capture, chat, or streaming software, including Free OBS (Open Broadcaster Software) streaming software which is available for Windows PC, macOS and Linux. The unit is powered directly by the USB 3.1 Gen1 port so an external power supply is not required. Availability and access to the controllable features of the unit depend on the capture software used.

EPC515 Advantages

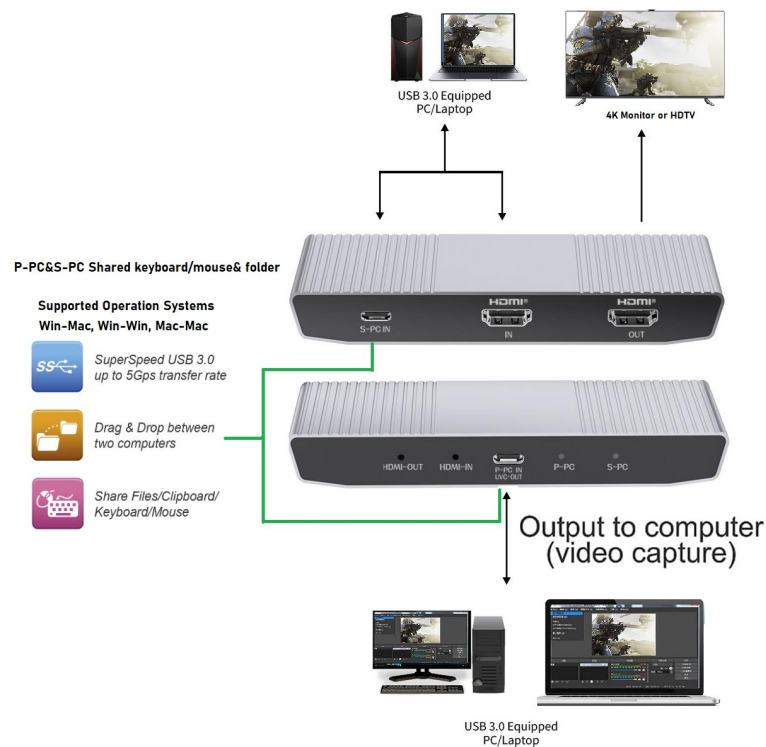
- ✓ Hardware-level keyboard & mouse control across two computers (no network required, stable and real-time)
- ✓ 4K60 screen sharing (higher resolution than Logitech Flow and Synergy)
- ✓ Plug & Play with minimal setup, ideal for normal users
- ✓ Built-in file transfer, clipboard sharing, and file manager for enhanced productivity
- ✓ Supports Windows & macOS, covering over 90% of Personal Computer users

Key Features

1. 1 input (input resolution up to 4K@60), 1 bypass output (Follow source up to 4K@60)
2. Max. video capture resolution up to 1080p/60Hz
3. USB3.1 Gen1 connected to 2 PC for data transmission
4. Support USB Share HID Control
5. Supports UVC 1.0 and UAC1.0
6. Supports USB port power supply, no need for an external power supply
7. PC software available for detail control and setting
8. Compatible with third-party applications, such as QuickTime, OBS, XSplit, vMix, etc.

Interfaces		HDMI Resolutions	
Input Port	1 HDMI (Type A)	Maximum Input	4096x2160p@60
Output Port	1 HDMI (Type A) 2 USB 3.1 Gen1 (Type C)	Maximum Output	4096x2160p@60
Bi-directional Port		Power	
Control I/O		Power Supply	USB powered
Video		Power Consumption	TBD
HDMI Compliance	HDMI 2.0	Enclosure	
HDCP Compliance	2.2 bypass	Material	Aluminum
Input Signal Type	4K@60 (HDMI)	Dimensions (W×H×D)	130×56×18mm
Output Signal Type	4K@60 (HDMI) 1080p@60(USB capture)	Weight	200g

Application



Specifications

Windows Computer Configuration Requirements (UVC Protocol Support Required)

a. MJPEG 4K60 output, general computer equipment requirements

	DESKTOP	LAPTOP
CPU	Intel Core i7-10XXX	Intel Core i9-9XXX
GPU	NVIDIA GeForce GTX 1650	NVIDIA GeForce GTX 1650
RAM	8G	8G

b. NV12 4K30 output, general computer equipment requirements

	DESKTOP	LAPTOP
CPU	Intel Core i5-6XXX	Intel Core i5-8XXX
GPU	NVIDIA GeForce GTX 1060	Intel iGPU UHD 620 GPU
RAM	8G	8G

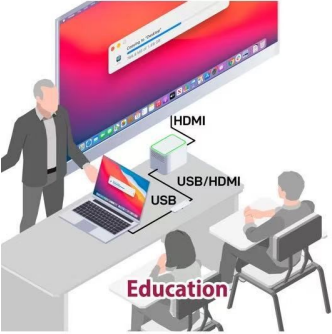
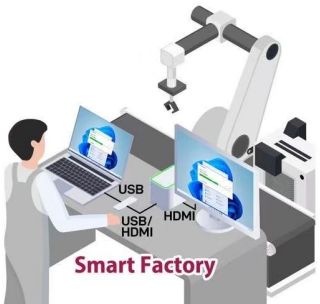
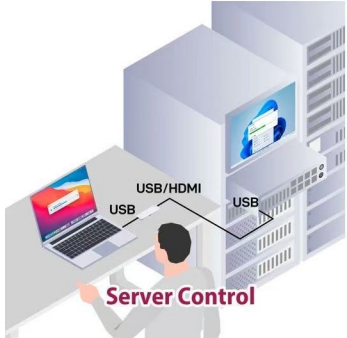
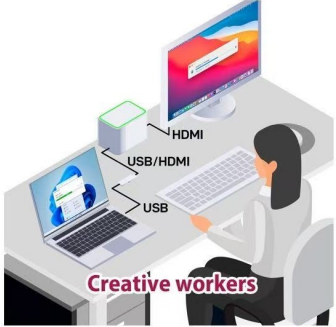
c. H.264/HEVC.2654K60 output, higher GPU requirements

- It is recommended to choose GPU HW decode mode for playback applications.

	DESKTOP	LAPTOP
CPU	Intel Core i5-6XXX	Intel Core i7-7700HQ
GPU	NVIDIA GeForce GTX 1060 或 Intel iGPU Iris GPU	NVIDIA GeForce GTX 1050Ti 或 Intel iGPU Iris GPU
RAM	8G	8G

Target Market Focus

Our focus is on the education sector with dual-computer classroom setups, industrial automation personnel, data center operators, and creative designers — all of whom have a high demand for smooth, efficient cross-device operation.

 Education	◆ Education Market (Dual-Computer Classroom Teaching) Create instructional videos and share them instantly between two computers, showcasing seamless workflows between Windows and macOS. This streamlines the process, allowing teachers to focus on delivering quality lessons rather than managing technology.
 Smart Factory	◆ Industrial Market (Industrial Automation Personnel) The three-in-one capability — cross-device keyboard & mouse control, 4K60 screen sharing, and plug-and-play operation — helps industrial users achieve their operational goals faster and with greater efficiency.
 Server Control	◆ IT Applications Market (Data Center Operators / IT Staff) Empowers operators to control data center servers directly from a laptop with lower latency than remote desktop software and without requiring a network connection. Whether transferring files, sharing clipboard content, or accessing a shared file explorer, this dramatically improves productivity.
 Creative workers	◆ Professional Creative Market (Creative Designers) Provides visual artists with a powerful desktop environment for demanding tasks such as video editing, AI video creation, 3D rendering, and graphic design — applications that consume significant bandwidth for smooth operation. Creators can also pair this with a laptop for client meetings, presentations, or on-site work.

Conclusion

Seamlessly transfer files from an old computer to a new one and start working right away. For mainstream professionals, USB Share saves time by enabling direct project transfers to a home computer or sharing large files with colleagues or clients without the need for external drives. This direct connection ensures security and privacy, eliminating the risk of misplaced drives or relying on third-party transfer websites that may be unable to handle large, sensitive files.

