

KVM SWITCHER · HDMI / USB-C SWITCHER

BLU-KSW21-USB-C

Two computers, one desk.

A 4K@60Hz HDMI/USB-C KVM switcher that puts one keyboard, mouse and monitor in control of two computers, with hotkey, IR, RS-232 and front-panel switching, per-input EDID emulation, and a 100W USB-C PD charging port.



2 × 1	18Gbps	USB 3.0	Auto / Manual	100W
KVM SWITCHER	4K@60HZ 4:4:4	5GBPS KVM	SWITCHING	USB-C PD CHARGING

SPECIFICATION SUMMARY

Type	HDMI/USB-C 2×1 KVM switcher
HDMI	HDMI 2.0
HDCP	HDCP 2.3
DP	DP 1.4
Bandwidth	18Gbps
Max Resolution	4K@60Hz, 2K@60Hz/144Hz
USB	USB 3.0, up to 5Gbps
Switching	Auto or manual – panel, hotkey, IR, RS-232
EDID	Per-input emulator
Power	DC 12V/1A, 7.8W

CONTENTS

01	Overview	02
02	Specifications	03
03	Interfaces & control	04
04	Application example	05

KEY FEATURES

- HDCP 2.3 and DP 1.4 compliant
- 4K@60Hz 4:4:4 and 2K@144Hz support
- USB 3.0 KVM data at up to 5Gbps
- USB-C PD3.0 charging up to 100W

One set, two PCs, no fuss. Hotkey, IR, RS-232 or the front-panel button switch instantly between the HDMI and USB-C sources; each input keeps its own EDID so both machines always output a format the display can show.



select a source · share keyboard, mouse & monitor · USB-C charges the active PC

KVM SWITCHING · TWO COMPUTERS, ONE KEYBOARD, MOUSE AND MONITOR

01 Overview

What the switcher does, and what's in the box.

This 2×1 **HDMI/USB-C KVM switcher** supports resolutions up to **4K@60Hz 4:4:4** 8-bit and transmits USB 3.0 data at up to 5Gbps for full keyboard, mouse and storage control. Each input carries its own EDID emulator, so both machines always see the display correctly. Switch from the front-panel button, IR remote, keyboard/mouse hotkey, or RS-232 — virtual-interaction wake-up brings a standby PC online automatically to cut the changeover time.

FEATURES

- HDCP 2.3 and DP 1.4 compliant
- Resolution up to 4K@60Hz or 2K@60Hz/144Hz, per HDMI 2.0
- HDR, HDR10, HDR10+, Dolby Vision and HLG pass-through
- One keyboard, mouse and monitor controls two computers
- Fast video switching with seamless keyboard/mouse switching
- Hot-plug support — connect or disconnect devices at any time
- USB-C charging port supports PD3.0 charging up to 100W
- Plug-and-play on Windows, macOS and Linux — no driver required

AT A GLANCE

Switcher 2×1	HDMI 2.0	HDCP 2.3
DP 1.4	BW 18Gbps	Max 4K60
USB 5Gbps	PD 100W	EDID Per-port

PACKAGE CONTENTS

1×	4K60 2×1 HDMI/USB-C KVM Switcher
1×	IR Remote
1×	3-pin 3.81mm Phoenix Connector
1×	38KHz IR Receiver Cable (1.5m)
1×	USB 3.0 Cable (AM-BM, 1.8m)
1×	USB Type-C Cable (Gen2, 1m)
1×	HDMI Cable (1.5m)
2×	Mounting Ears + Screws
1×	12V/1A Power Supply
1×	User Manual

02 Specifications

Technical, connection, mechanical and environmental figures.

TECHNICAL

HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.3
DP Compliance	DP 1.4
Frequency Bandwidth	18Gbps
Max Resolution	4K@60Hz, 2K@60Hz/144Hz
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8 / 10 / 12-bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Latency	No latency
Video Latency	No latency
ESD Protection	Human-body Model: ±8kV (Air-gap), ±4kV (Contact)

CONNECTIONS

Input Ports	1 × HDMI [Type A, female] 1 × USB-C [AV signal] 1 × USB-C [power input]
Output Ports	1 × HDMI [Type A, female] 1 × L/R audio [3.5mm]
Control Ports	1 × RS-232 [phoenix] 1 × IR EXT [3.5mm] 1 × USB HOST [Type B] 4 × USB DEVICES [Type A]

MECHANICAL

Dimensions	175 (W) × 100 (D) × 30 (H) mm
Weight	505 g

POWER

Power Supply	DC 12V / 1A
Consumption	7.8W typical, 0.6W standby

ENVIRONMENT

Operating Temp.	0°C ~ 40°C / 32°F ~ 104°F
Storage Temp.	-20°C ~ 60°C / -4°F ~ 140°F

03 Interfaces & control

The front and rear connections, and how switching and EDID work.



1	USB DEVICES	4× USB 3.0 Type-A ports — share keyboard, mouse and other USB peripherals between PC1 and PC2.
2	IR / HOTKEY	IR receiver window plus the HOTKEY on/off switch for keyboard/mouse switching.
3	SELECT	Front-panel button — manually switches between PC1 and PC2.
4	PC1 – HDMI / USB HOST	HDMI input and USB 3.0 Type-B — connect to PC1's HDMI and USB ports.
5	PC2 – Charge / USB-C	USB-C power input (charges the connected device) and USB-C AV signal input.
6	DISPLAY – HDMI / Audio	HDMI output to the display, plus a 3.5mm stereo audio output.
7	RS-232 / IR EXT / DC 12V	Phoenix-connector serial control, external IR input, and the locking DC power input.

Hotkey switching. Hold SELECT >2s to toggle auto/manual; in manual mode, short-press to step between PC1 and PC2. The active input's LED lights.

USB-C, charged. The USB-C input on PC2 doubles as a PD3.0 charging port, delivering up to 100W to the connected laptop while it's active.

04 Application example

Two PCs into one monitor, with a shared keyboard, mouse and USB hub.



select a source · share keyboard, mouse & monitor · USB-C charges the active PC

One desk, two machines. Switch a workstation and a laptop to a single monitor from the panel, hotkey or IR; USB peripherals and the mouse/keyboard follow automatically.

Compact and quiet. A 30mm-thin, 12V-powered switcher that tucks behind the display or under a desk.

ORDERING

BLU-KSW21-USB-C

4K60 2×1 HDMI/USB-C KVM Switcher — HDMI 2.0, HDCP 2.3, DP 1.4, 18Gbps, up to 4K@60Hz 4:4:4, USB 3.0 KVM at 5Gbps, USB-C PD3.0 100W charging, EDID emulation, auto/manual switching, panel / hotkey / IR / RS-232 control.

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