

8K@60Hz Bidirectional USB-C to DisplayPort 1.4 Adapter, 4K@144Hz

Supports two-way signal transmission between USB-C and DisplayPort for versatile display connection

Model No.: UCDP8K-18M2-SW

Version: v1.0

The flykantech.com UCDP8K-18M2-SW bidirectional USB-C to DisplayPort 1.4 adapter supports 32.4Gbps high-bandwidth transmission, delivering up to 8K@60Hz ultra HD resolution and 4K@144Hz high refresh rate. Integrated with HDR10, DSC compression and 2-channel audio, it provides vivid colors, smooth visuals and immersive audiovisual performance for gaming, video editing and home entertainment. Featuring bidirectional transmission, this adapter supports flexible connection between USB-C and DisplayPort devices to expand your external display options.

Built with premium signal chip, this adapter ensures stable, flicker-free video transmission up to 3 meters without signal loss. It is plug-and-play, driver-free and hot-swap capable for easy setup. Please note that the maximum resolution is determined by host hardware: Intel 11th Gen and newer CPUs require DSC for 8K@60Hz/4K@144Hz output; Apple M1/M2/M3 Pro/Max devices only support up to 4K@60Hz via DP Alt Mode. Widely compatible with Thunderbolt 3/4, NVIDIA RTX3000+, AMD RX6000+ and most USB-C enabled devices, it offers a reliable high-performance display extension for office and professional use.



Features

- Bidirectional DP 1.4 Transmission
- 8K@60Hz & 4K@144Hz Ultra-High Resolution Output
- Host-Hardware Defined Maximum Display Output
- Synchronized 2-Channel Audio Pass-Through
- Synchronized 2-Channel Audio Pass-Through
- Driver-Free Plug-and-Play Hot-Swap Operation

Applications

- Office Multi-Monitor Workstation Setup
- High-Refresh Gaming Display Connection
- Video & Photo Content Creation Workflow
- Home Theater & Media Entertainment
- Conference & Presentation Projection Solution
- Flexible Cross-Device Bidirectional Video Routing

**DSC support required to reach maximum resolution capabilities on Intel 11th Gen or later*

***Apple MacBook's with M1/M2/M3 Pro/Max silicon do not support 8K 60Hz over USB-C DP Alt Mode*

Technical Specifications

Connector A	USB Type C Male
Connector B	DisplayPort Male (DP-Alt Mode)
Transmission Mode	Bidirectional (USB-C ⇌ DisplayPort)
Standard	DisplayPort 1.4
Max. Resolution	7680x4320@60Hz and 3840x2160@144Hz
Video Features	HDR10, DSC
Audio Specifications	DisplayPort - 2 Channel Audio
Power Delivery	No PD Pass-Through
Hot-Swap Support	Yes
Driver Requirement	Driver-free / Plug-and-Play
Housing Material	Metal + ABS
Dimensions (approx.)	1m/2m/3m
Net Weight	App. 80g

Important Notes

1. Bidirectional for one-way video transmission only; simultaneous dual-direction output is not supported.
2. USB-C port must support DisplayPort Alternate Mode. Charging/data-only USB-C ports will not function.
3. No PD pass-through; cannot deliver power to host laptop.
4. Single-monitor only. MST multi-display expansion is not supported.
5. Reverse direction (DP source to USB-C display) subject to monitor EDID compatibility.
6. Stable high-resolution signal guaranteed up to 3m total cable length. Longer cables may cause flickering or signal dropout.

Fly Kan Tech Co., Limited (HK) | Shenzhen VTOP Electronic Co., Limited(Mainland)

Tel: +86-755-85288085 Fax: +86-755-85288085 Email: sales@flykantech.com

UCDP8K-18M2-SW

<https://www.flykantech.com>

Updated on 2026/08/14