# USB4 40Gbps Cable (M/M) - USB-C, 8K 60 Hz, 240W EPR Charging, Black, 1.2 m (4 ft.)

MODEL NUMBER: **U521-1P2M-BK**

## Highlights

- Transfers large video and data files at speeds up to 40 Gbps - 8x faster than USB 3.0
- Converts audio/video signals from sources supporting USB-C DisplayPort Alt Mode
- Supports single 8K display or dual 4K displays at 60 Hz up to 80 Gbps
- Supports up to 240W EPR power output for charging high-powered devices
- Backward compatible with USB 3.x, USB 2.0 and Thunderbolt 3 devices

## System Requirements

- Devices with USB-C or Thunderbolt 3 ports (USB4 40Gbps compatibility required to achieve USB4 40Gbps performance)
- DP 2.1 Alt Mode required for maximum video output capability (8K/60Hz)
- 240W PD Charging output is supported, but the actual charging performance of a connected device is dictated by the maximum power draw of the device itself

## Package Includes

U521-1P2M-BK USB4 40Gbps Cable (M/M), Black, 1.2 m (4 ft.)

USB4 40Gbps cable connects 2 devices with USB-C or Thunderbolt 3 ports, including 4K/8K displays, laptops, smartphones, docks and PCs.

## Features

### USB4 Cable Streams Video and Processes Data at 40 Gbps, 8x Faster Than USB 3.0

This USB4 40Gbps cable (M/M) transmits across two bidirectional lanes, supporting speeds up to 40 Gbps, which is eight times faster than USB 3.0/3.1/3.2. Unlike previous USB generations, the USB4 40Gbps cable has the ability to allocate resources. Instead of splitting video and data equally between its two lanes, the U521-1P2M-BK allows the connected display as much bandwidth as it needs, while saving all remaining bandwidth for high-speed data transfers. This makes the cable perfectly suited for 4K or 8K video streaming and editing, as well as transferring large RAW video or CAD files.

### Supports DisplayPort Alternate Mode for Unidirectional 80 Gbps Video Connections

By connecting a 4K or 8K display to a host device that supports DisplayPort Alt Mode 2.1, this cable can use both high-speed lanes to transmit 4K or even 8K video at 60 Hz in one direction at 80 Gbps maximum speed with 30-bit Deep Color, HDR and 4:4:4 chroma subsampling. Connected to a host that supports DisplayPort Alt Mode 1.4, the U521-1P2M-BK can transmit 8K at 30 Hz.

### Backward Compatible with Legacy USB and Thunderbolt 3 Devices

Though both connected devices must support USB4 40Gbps for the cable to reach its full potential, the U521-1P2M-BK is backward compatible with USB 3.x, USB 2.0 and Thunderbolt 3 devices. It connects two USB-C devices, including MacBooks, Chromebooks, Windows laptops, Kindles, game consoles, smartphones, external hard drives, docking stations and wall chargers. It is compatible with all USB-C and Thunderbolt 3 devices, enabling use in existing installations while preparing for future upgrades.

### 240W EPR Charging Cable Keeps the Connected Notebook, Laptop or Other Device at Capacity

The U521-1P2M-BK supports Power Delivery (PD) 3.1 and Extended Power Range (EPR) charging of the connected PD Charging-compliant device. It carries power output up to 48V 5A (240W), which is sufficient for fast-charging and powering your MacBook or other mobile device, including the latest iPhone and other smartphones with a USB-C connector. The built-in E-Mark chip ensures a safe and reliable charging connection between the power source and device.

### USB-IF Certification Ensures Rigorous Testing and Top-of-the-Line Performance

This cable meets the high standards of USB-IF (USB Implementers Forum, Inc.), a non-profit organization consisting of companies that developed the USB specification. Receiving USB-IF certification means the U521-1P2M-BK meets the industry's highest environmental, mechanical and electrical standards. It operates with your USB peripherals, adapters and cables with top efficiency and safety.

# Specifications

| OVERVIEW | |
|---|---|
| UPC Code | 037332281159 |
| Device Compatibility | Amazon Kindle; Chromebook; Computer; Laptop; Monitor/HDTV; Phone; Tablet; Video Game System |
| Technology | USB4 |
| Country/Region | Global |
| Cable Type | Active |

| VIDEO | |
|---|---|
| Resolutions Supported | The U521-1P2M-BK is compatible with USB3.x/USB4/Thunderbolt hosts that support at least DisplayPort Alt Mode 1.4 and supports the following video output capabilities:**DP 2.1 Alt Mode Host** Up to 7680 x 4320 (8K) @ 60 Hz**DP 1.4 Alt Mode Host**Up to 7680 x 4320 (8K) @ 30 Hz |
| Supported Resolutions | 3840x2160 (4K); 7680x4320 (8K) |
| Max Supported Video Resolution | 7680 X 4320 @ 60HZ |
| Max Supported Color Depth | 30-bit Deep Color |
| HDR Support | Yes |
| 3D Video Supported | Yes |
| Chroma Sub Sampling | 4:2:0; 4:2:2; 4:4:4 |
| EDID Support | Yes |
| Bandwidth | 40 Gbps; 80 Gbps (DP 2.0 cable) |
| DisplayPort Alt Mode | Yes |
| DSC Support | Yes |

| INPUT | |
|---|---|
| Maximum Input Amps | 5.0 |
| Maximum Input Watts | 240 |

| POWER | |
|---|---|
| USB Power Delivery (PD) Charging Support | Yes |
| USB Power Delivery (PD) Charging Specification | 3.1 |

| CONNECTIONS | |
|---|---|
| Side A - Connector 1 | USB C (MALE) |
| Side B - Connector 1 | USB C (MALE) |
| Connector Plating | Nickel |
| Contact Plating | Gold |

| | |
|---|---|
| Connector Style | Straight |
| Latching or Gripping Connector | No |
| Angled Connector | No |

## CHARGING

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|---|---|
| Total Charging Amps | 5 |
| Total Charging Watts | 240 |
| Standards | PD 3.1 |
| Compatible Devices | Chromebook; Laptop; Smartphone; Tablet; Video Game Console |

## PHYSICAL

| | |
|---|---|
| Color | Black |
| Material of Construction | TPE |
| Cable Jacket Color | Black |
| Connector Color | Black |
| Cable Jacket Material | TPE |
| Cable Jacket Rating | VW-1 |
| Cable Outer Diameter (OD) | 4.95MM |
| Wire Gauge (AWG) | 34/30/23 |
| Cable Length (ft.) | 3.94 |
| Cable Length (m) | 1.20 |
| Cable Length (in.) | 47.2 |
| Shipping Dimensions (hwd / in.) | 9.00 x 7.00 x 0.50 |
| Shipping Dimensions (hwd / cm) | 22.86 x 17.78 x 1.27 |
| Shipping Weight (lbs.) | 0.22 |
| Shipping Weight (kg) | 0.10 |
| Unit Dimensions (hwd / in.) | 9.000 x 7.000 x 0.500 |
| Unit Packaging Type | Polybag |

## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature Range | 32° to 113°F (0° to 45°C) |
| Storage Temperature Range | 14° to 158°F (-10° to 70°C) |
| Operating Humidity Range | 10% to 85%, Non-Condensing |
| Storage Humidity Range | 5% to 90%, Non-Condensing |
| Power Provided to Connected Device(s) | 240W (48V/5A) |

## FEATURES & SPECIFICATIONS

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|---|---|
| USB Specification | USB4 (up to 40 Gbps) |
| Data Transfer Rate | 40 Gbps |
| Antibacterial | No |
| IP68 Rated | No |
| Displayport Specification | 1.4; 2.1 |

**STANDARDS & COMPLIANCE**

| | |
|---|---|
| Product Certifications | UL 94 |
| Product Compliance | CE (Europe); FCC Part 15 Class A (USA); RoHS; UKCA; WEEE |

**WARRANTY & SUPPORT**

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|---|---|
| Product Warranty Period (Worldwide) | 3-year limited warranty |