



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: USBC-BOOSTER-V1B

FUNCTIONAL OVERVIEW

USBC-BOOSTER-V1B is a USBC-BOOSTER-V1 device bundle designed to solve medium-distance USB-C connection limitations in professional meeting and collaboration spaces. Installed inline between two USB-C cable segments, it regenerates and stabilizes the USB-C link while supporting DisplayPort Alternate Mode video, USB 2.0/3.2 data, and USB Power Delivery. The unit is plug & play with no driver required and uses a built-in power supply with standard IEC mains input. A physical switch selects DisplayPort Alt Mode 2-lane or 4-lane operation.

VIDEO INPUT AND OUTPUT

- **USB-C input:** DisplayPort 1.2a (DP Alt Mode), HBR2; supports 2-lane / 4-lane mode
- **USB-C output:** DisplayPort 1.2a (DP Alt Mode), HBR2; supports 2-lane / 4-lane mode
- Maximum video resolution: up to 4096×2160@60Hz at RGB 4:4:4 (DP Alt Mode)
- Color space: RGB, YCbCr
- HDCP compliance (input and output): HDCP 1.4, HDCP 2.2

AUDIO CAPABILITIES

- Audio formats: all formats in line with the DP 1.2a standard

POWERING

- AC mains via IEC C14 receptacle
- AC input range: 100–240 V AC, 50–60 Hz
- Supplied current: 1.5–0.6 A
- Power consumption (max): 120 W
- **Power delivery capabilities:**
 - USB Power Delivery (input port): USB PD 3.1 up to 100W (20V, 5A)
 - USB Power Delivery (output port): USB PD 3.1 up to 15W (5V, 3A)

CONTROL

- Physical DisplayPort Alt Mode switcher: selects DP 2-lane or DP 4-lane mode
- Status indication via front-panel LEDs (Power, Signal)
- Plug & play operation; no driver required

MAXIMUM CABLE EXTENSIONS

- Input side (passive USB-C cable): 5 m (16.4 feet) with 100W charging
- Output side (passive USB-C cable): 5 m (16.4 feet) with 15W charging
- Output side: 7 m (23 feet) only with the USBC-BOOSTER-CABLE-7
- Output side (active USB-C cable): 10 m (32.8 feet)

GENERAL

- Enclosure: 1 mm steel
- Dimensions: 221 W × 142 D × 42.5 H mm (8.7 × 5.6 × 1.7 in)
- Weight: 1076 g (2.37 lbs)
- Cooling: Passive (fanless design)
- Compliance: CE, UKCA
- Electrical safety: EN 62368-1:2024
- **Mounting options:**
 - Under-desk installation with 2 pcs 50mm chipboard screws (supplied)
 - Under-desk installation using UD Mounting Plate F120 (optional) with 2 pcs M3×6 flat head screws (not supplied)
- **Supplied accessories:**
 - IEC power cable
 - C-LOCK (4x) and cable ties (8x)
 - Pan head, zinc plated, chipboard screw 4×50mm, PZ (2x)
 - USB-C 7 m cable made for the Booster (USBC-BOOSTER-CABLE-7)
 - Safety & Warranty Info; Quick Start Guide
- Warranty: 3 years



DOCUMENT REVISION HISTORY

Document	Release Date	Changes	Checked by
v1	2026-09-29	Initial version	Tamas Forgacs