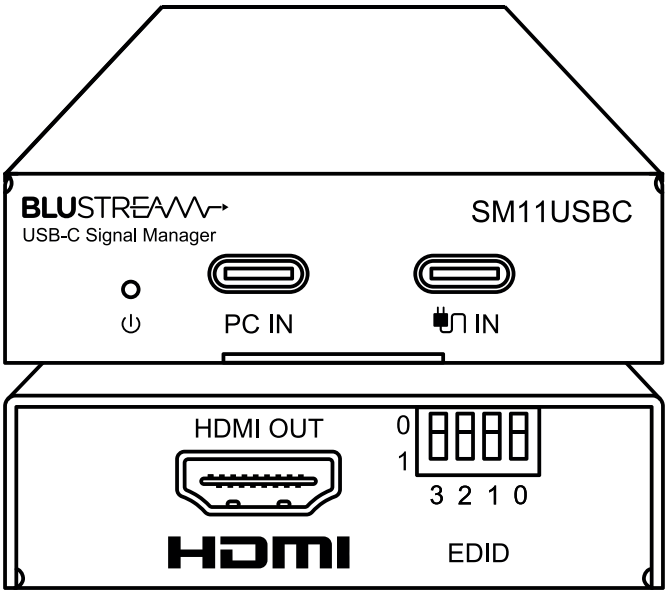


SM11USBC

User Manual

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.



Surge Protection Device Recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.



Eco Friendly Packaging

This product has been packaged with fully recyclable materials, including compostable bags. Please help us to protect the environment.

Safety and performance notice

Do not substitute or use any other power supply other than approved Blustream power supplies.

Do not disassemble the device for any reason. Doing so will void the manufacturer's warranty.

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Introduction

The SM11USBC effortlessly converts USB-C (DP Alt Mode) to HDMI, delivering stunning 4K 60Hz 4:4:4 visuals with zero hassle. Whether working in standard, wide, ultra-wide, or super ultra-wide formats, this plug and play converter adapts instantly to your setup, requiring no drivers or complicated configuration - simply connect and go.

Full EDID management intelligently handles EDID from the host device, eliminating common HDMI, EDID, HDCP, and handshaking compatibility issues commonly associated with conversion and distribution of these signals. Full audio pass-through guarantees synchronised, high-quality audio alongside video without needing a separate cable, and a dedicated USB-C power input lets the host device's PSU be directly to the SM11USBC, delivering up to 100W of power through the single Type-C connection.

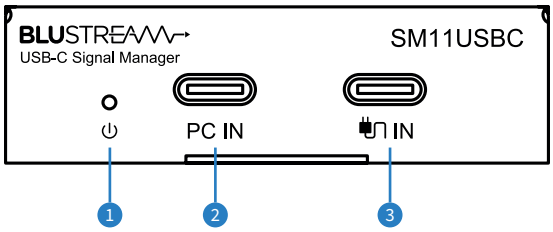
Designed with single-port laptops and tablets in mind, the SM11USBC solves the everyday challenge of needing both power and video through one connector, letting you charge and display simultaneously without a docking station, and without additional cables cluttering the set-up.

Simple, powerful, and reliable, the SM11USBC turns a single USB-C port into a complete display and power solution.

FEATURES:

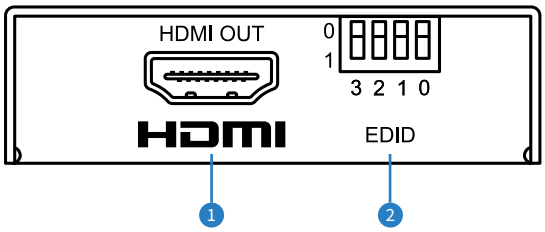
- Supports full HDMI 2.0 specification with HDR pass-through
- Converts video from USB-C (DP Alt Mode) up to 4K UHD / DCI 60Hz 4:4:4, with support for wide (2560x1440), ultra-wide (3440x1440), and super ultra-wide (3840x1080) resolutions
- Helps to solve most HDMI, EDID, HDCP, compatibility, and handhsaking issues
- HDCP 2.2 compliant
- Supports bitstream passthrough of multichannel surround sound including object-based audio formats in line with HDMI specifications
- Advanced EDID management
- USB-C host PD power pass-through (up to 100W)
- Powered from USB-C host device connection
- No software drivers required - plug and play

Front Panel Description



1. Power LED — illuminated blue when powered on
2. PC In Port — connect USB-C input to source
3. Power Delivery In Port — USB-C external power input to power the PC In port

Rear Panel Description



1. HDMI Out — connect output to display
2. EDID DIP Switches — used to set EDID

Operation and Connections

Connect a USB-C source device to the PC In port. Connect an HDMI display to the HDMI Out port. Once connected, video from the USB-C source is displayed on the HDMI display. To charge or power the connected USB-C source device, connect external power to the Power Delivery In port.

Please note: The connected source device must support USB-C Power Delivery to receive power through the PC In port.

EDID Control

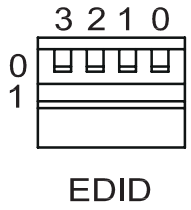
EDID (Extended Display Identification Data) is a data structure that is used between a display and a source. This data is used by the source to find out what audio and video resolutions are supported by the display, from this information the source will discover what the best audio and video resolutions need to be outputted.

While the objective of EDID is to make connecting a digital display to a source a simple plug and play procedure, issues do arise when multiple displays or video matrix switching is introduced because of the increased number of variables.

By pre-determining the video resolution and audio format of the source and display device you can reduce the time needed for EDID hand shaking thus making switching quicker and more reliable.

Configuration of extender EDID settings can be achieved using the product DIP switches on the rear panel of the SM11USBC.

Please note: Power cycle the product after making EDID changes. For some sources it may be necessary to power cycle the source after EDID changes have been made for the source to update its video & audio output settings.



DIP switch position ‘0’ = OFF
DIP switch position ‘1’ = ON

DIP ON ▼/OFF▲ SWITCH POSITIONS				
3	2	1	0	EDID TYPE
OFF	OFF	OFF	OFF	1080p60 4:4:4 8bit 2ch
OFF	OFF	OFF	ON	1080p60 4:4:4 8bit 7.1
OFF	OFF	ON	OFF	4K30 4:4:4 8bit 2ch
OFF	OFF	ON	ON	4K30 4:4:4 8bit 7.1
OFF	ON	OFF	OFF	4K60 4:2:0 8bit 2ch
OFF	ON	OFF	ON	4K60 4:2:0 8bit 7.1
OFF	ON	ON	OFF	3840 X 1080@60 4:4:4 8bit 2ch
OFF	ON	ON	ON	2560 X 1440@60 4:4:4 8bit 2ch
ON	OFF	OFF	OFF	4K60 4:4:4 8bit 2ch
ON	OFF	OFF	ON	4K60 4:4:4 8 bit 7.1
ON	OFF	ON	OFF	3440X1440@60 4:4:4 8bit 2ch
ON	OFF	ON	ON	4K60 4:2:2 12bit 7.1
ON	ON	OFF	OFF	4K60 4:2:2 10bit HDR 2ch
ON	ON	OFF	ON	4K60 4:2:2 10bit HDR 7.1
ON	ON	ON	OFF	2560x1440@120 4:4:4 10bit 2ch HDR
ON	ON	ON	ON	Copy EDID from Sink 1

Specifications

- **Video input:** 1 x USB Type C, female
- **Video output:** 1 x HDMI Type A, 19 lin, female
- **PD Power insertion connector (pass-through):** 1 x USB Type C, female
- **Dimensions (W x D x H):** 88mm x 62mm x 18mm
- **Product Weight:** 0.12kg
- **Shipping Weight:** 0.8kg (TBC)
- **Operating Temperature:** 32°F to 104°F (-5°C to +55°C)
- **Storage Temperature :** -4°F to 140°F (-25°C to +70°C)

NOTE: *Specifications are subject to change without notice. Weights and dimensions are approximate.*

Package Contents

- 1 x SM11USBC
- 1 x USB-A to USB-C cable (0.5m) - charging only
- 1 x Mounting kit

Maintenance

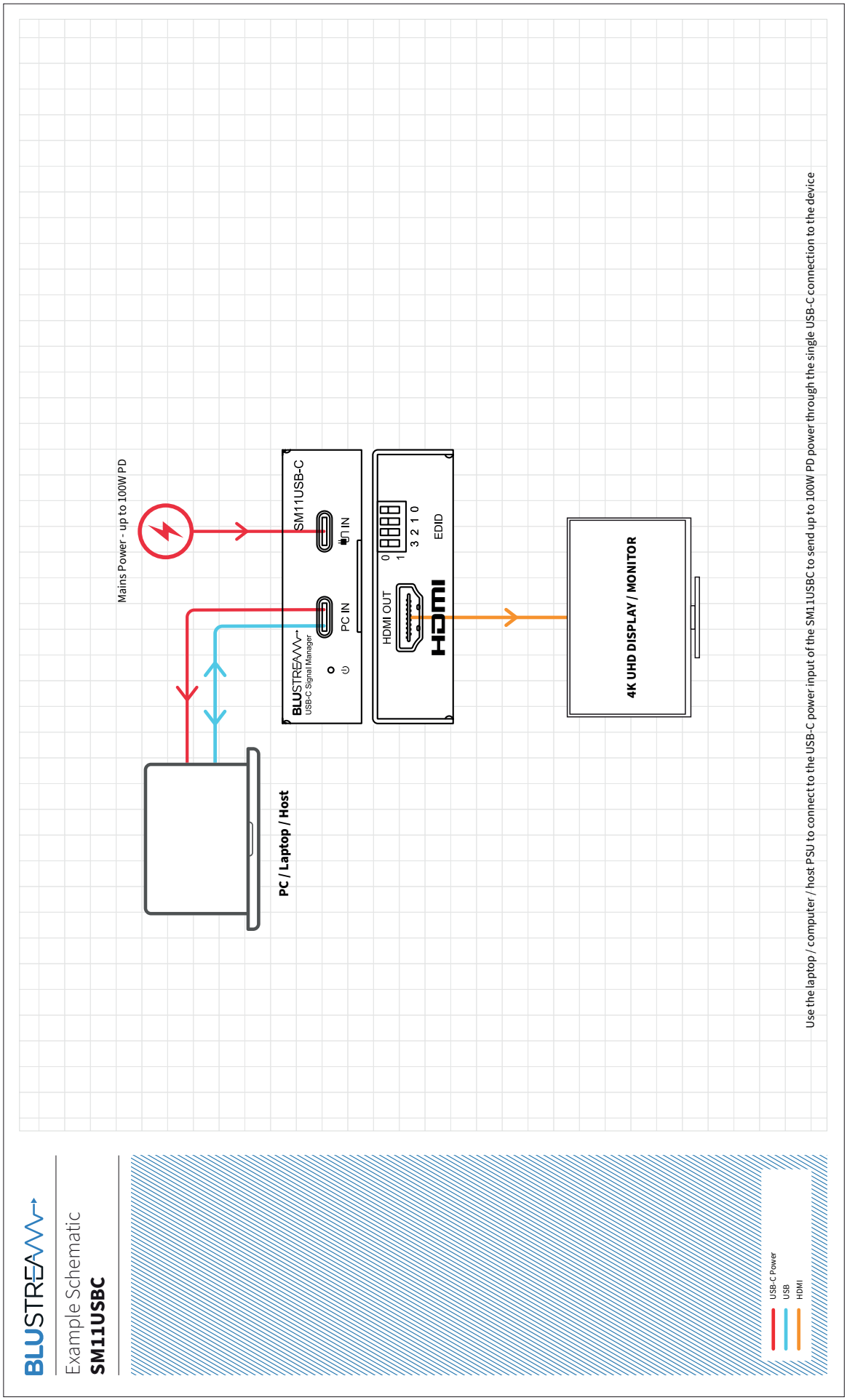
Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

Connection Schematic

BLUSTREAM

Example Schematic

SM11USBC



Certifications

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Correct Disposal of This Product

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.





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