



FAV-TC103 USB-C Switcher Kit System Specifications



1. FAV-TC103 Overview

The FAV-TC103 supports:

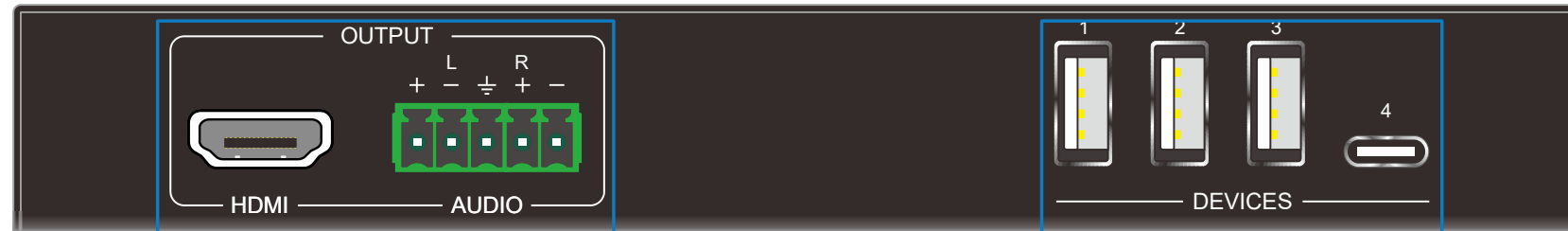
- 4K/60/4:4:4, HDR10
- Dolby Vision
- HDCP 2.2

It allows uncompressed 18Gbps signal transmission up to 100m and can connect to KVM equipment.

The switcher kit supports RS232&CEC control and bi-directional 48V PoC, making it ideal for conference room equipment and signal transmission.

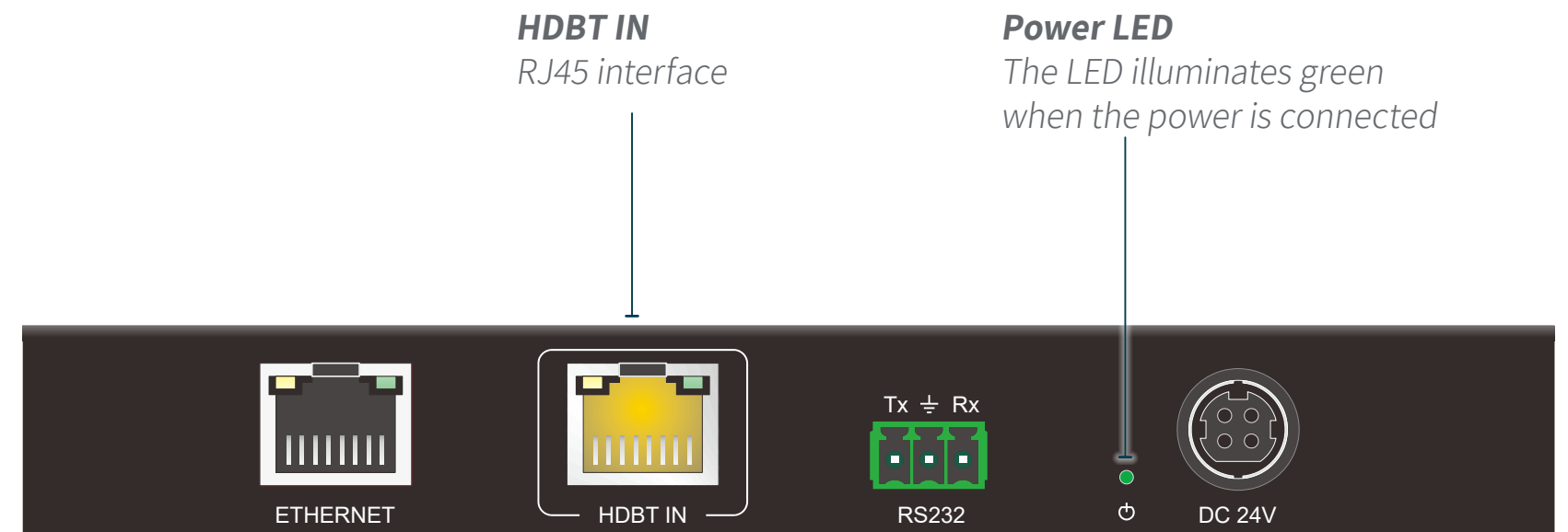
1.1 Receiver

The receiver includes the following connection ports:



Output
HDMI and 5-pin balanced audio output

Devices
3 USB-A 2.0 and 1 USB-C ports enables connection to devices



Ethernet
RJ45 for network passthrough transmission

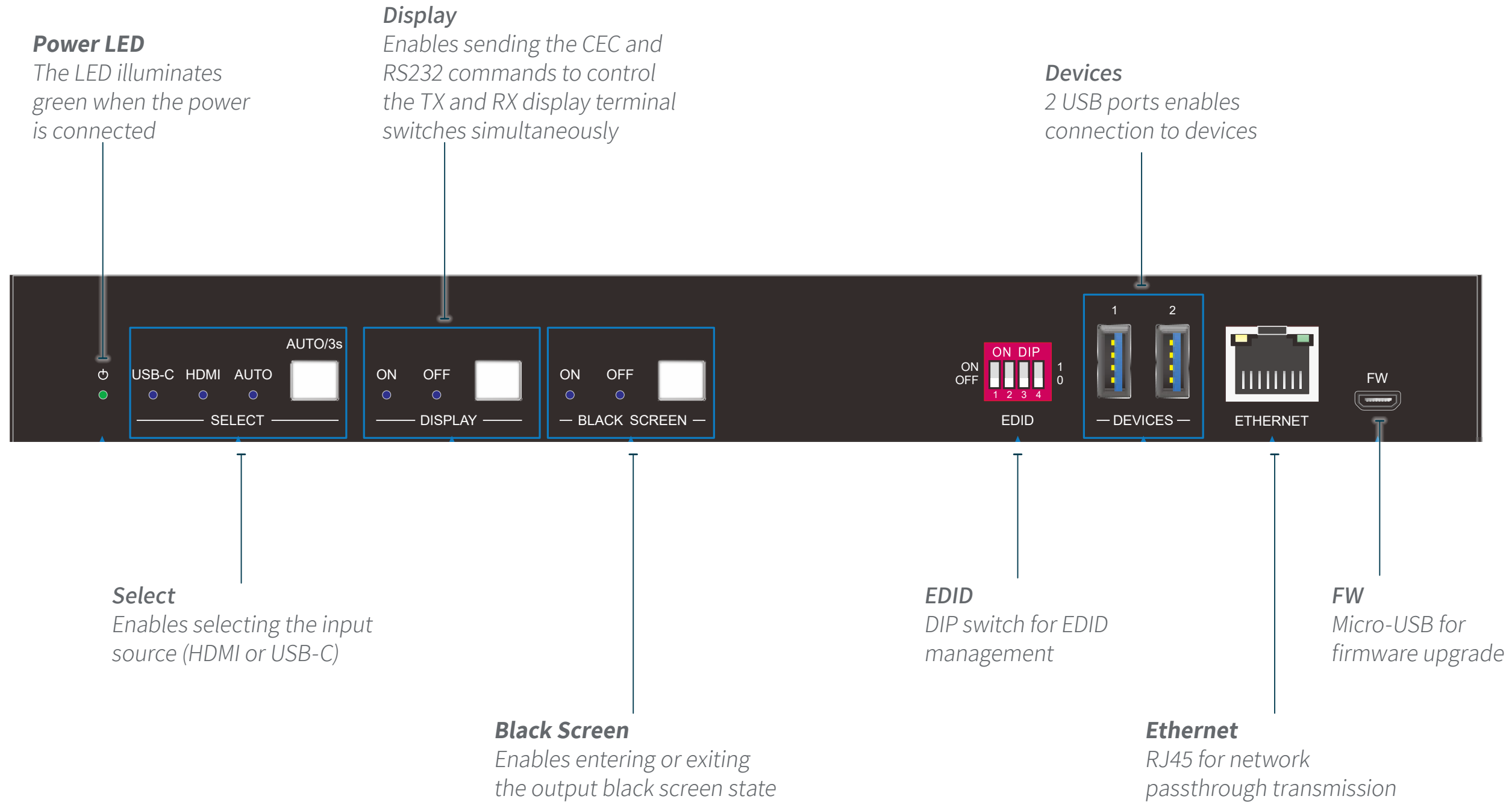
R232
3-pin phoenix head enables R232 passthrough transmission

DC 24V
Enables connection of power adapter



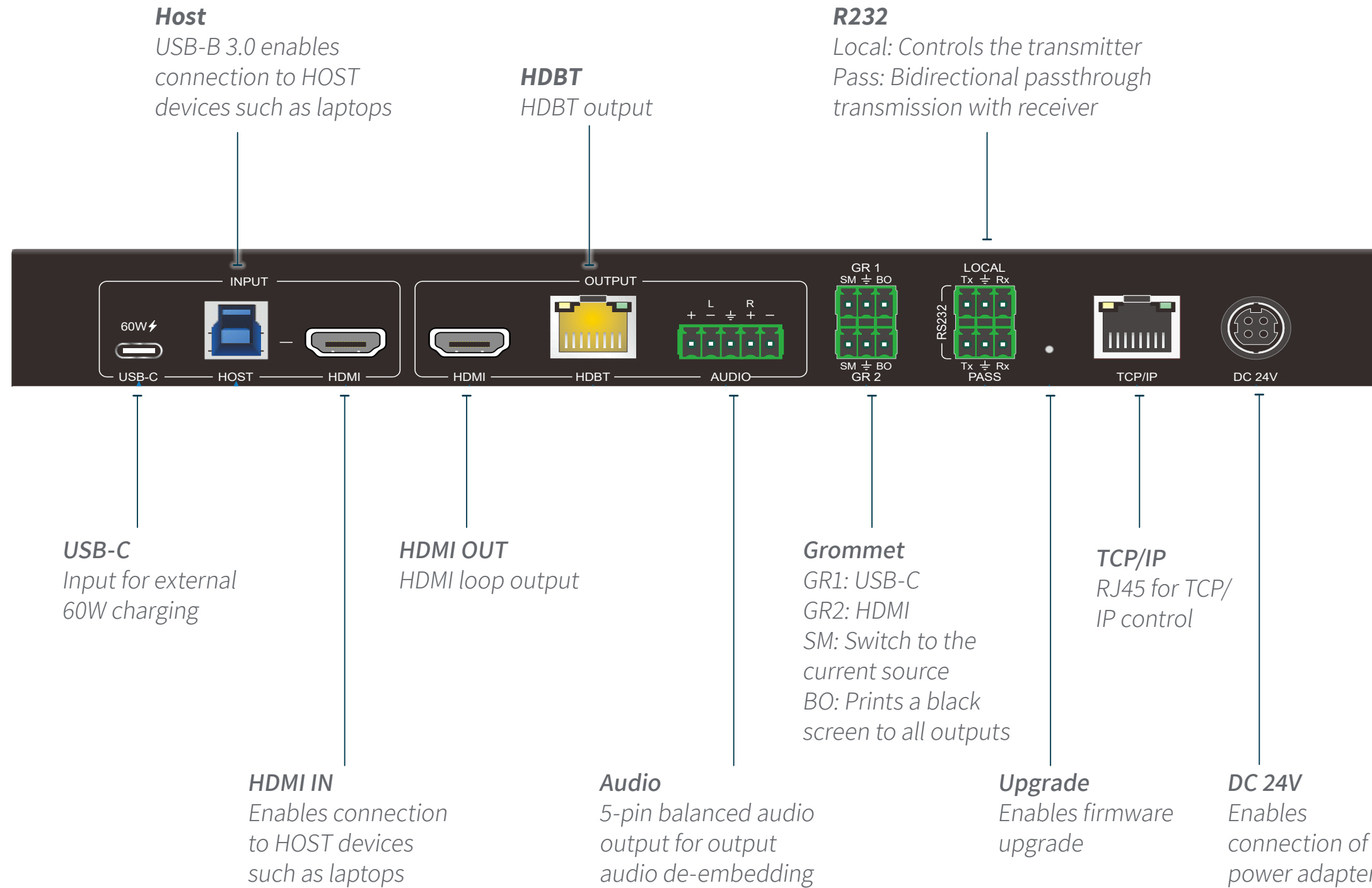
1.2 Transmitter Front Panel

The transmitter includes the following connection ports:



1.3 Transmitter Rear Panel

The transmitter includes the following connection ports:

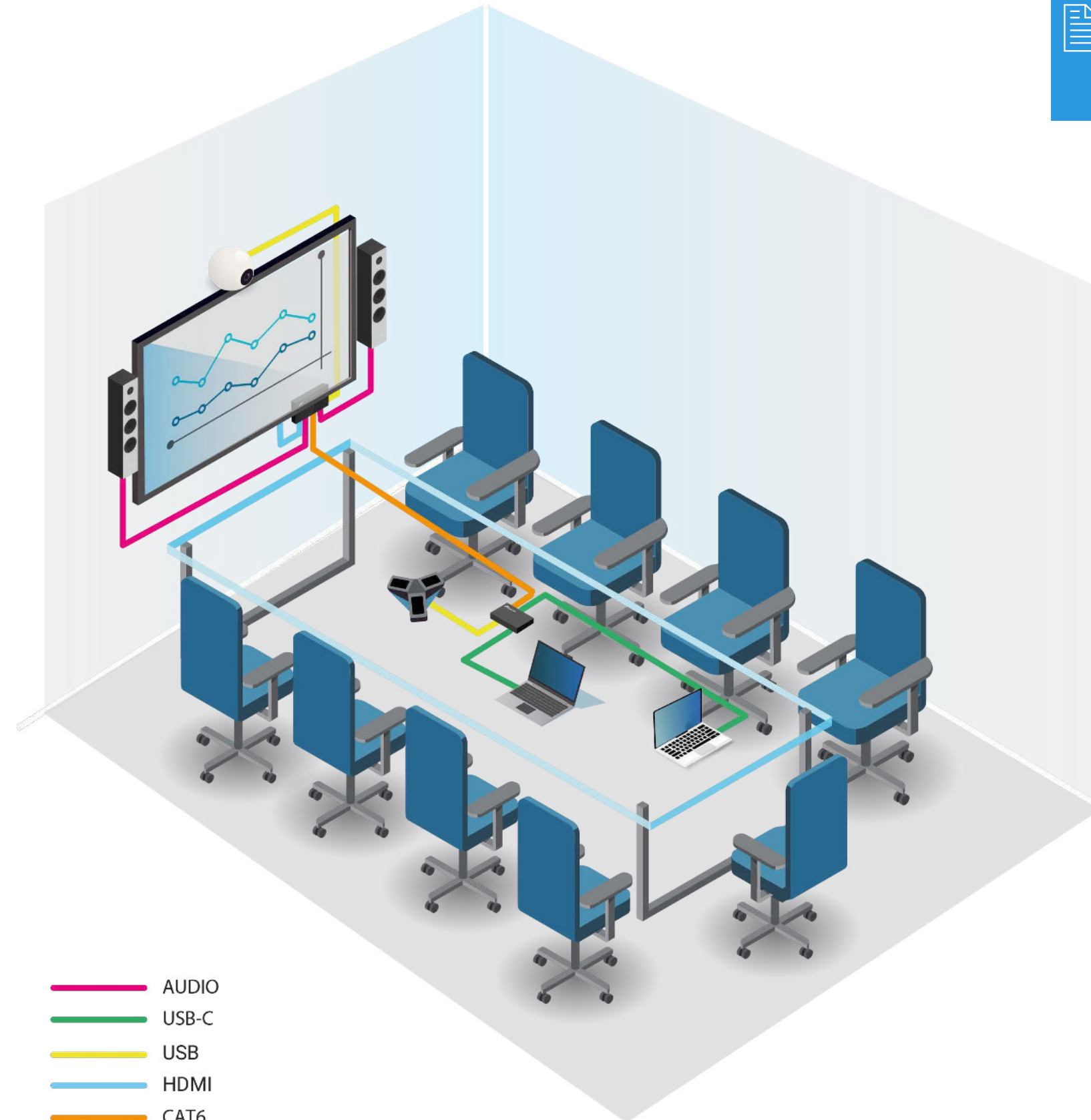


1.4 Typical Installation Layout

The following diagram illustrates typical input and output connections that can be utilized with the KVM Switch Kit:



NOTE: Images in this document are for illustration purposes only.



1.5 Features

The KVM Switcher Kit includes the following system features:

- HDMI 2.0, highest support 4K@60HZ 4:4:4, HDR10 and Dolby Vision, HDCP 2.2.
- 1 x HDMI input, 1 x USB-B host, 1 x USB-C input, 1 x HDMI output and 1 x HDBaseT output.
- HDBT 3.0, supports 100m transmission and bidirectional 48V PoC.
- Supports RS232 control and CEC control.
- USB-C input support 60W external charging.
- Auto switch 5V or TMDS detection.
- Supports Dry Contact control.



2. Product Kit

The following items are provided with the KVM Switcher Kit:

Transmitter Kit Contents

Component	Quantity
FAV-TC103-TX	1
3-pin terminal block	4
5-pin terminal block	1
3-pin to DB9 RS232 cable	1
USB Type C cable 4K60Hz 20Gbps PD 240W 1.5 meter	1
Hangers	2
Screws	4
Foot Pads	4

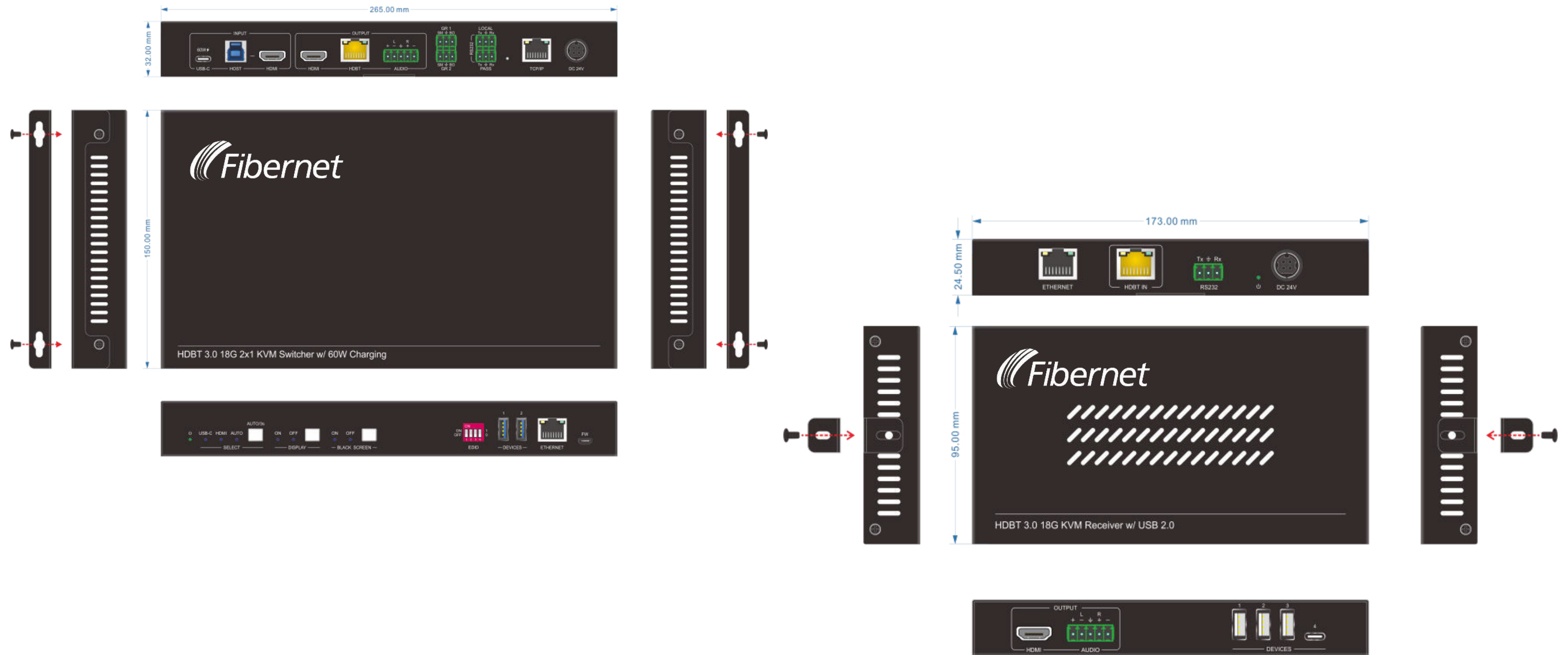
Receiver Kit Contents

Component	Quantity
FAV-TC103-RX	1
3-pin terminal block	1
5-pin terminal block	1
Hangers	2
Screws	2
Foot Pads	4
DC24V/5A Power Adapter	1
English Manual	1



3. Measurements

The KVM Switcher Kit includes the following measurements:



4. System Specifications

This section reviews the physical, electrical, communications, and environmental specifications for the KVM switcher kit.

4.1 Environmental Specifications

- Operation Temperature: -5 ~ to +55°C
- Storage Temperature: -25 ~ to +70°C
- Relative Humidity: 10% ~ 90%

4.2 Electrical Specifications

- Power Consumption: 76.5 watts (Max)
- External Power Supply - Input: AC 100 ~ 240V, 50/60Hz; Output: 24V DC 5A
- USB-C Power Charging: 60 Watts (Max)

4.3 Physical Specifications

	Transmitter	Receiver
Dimension (W*H*D)	265 x 32 x 150 mm	173 x 24 .5 x 95mm
Net Weight	1020g	410g

4.4 Control Specifications

	Transmitter	Receiver
Control Port	(1) EDID switch, (2) DEVICES (1) ETHERNET, (1) FW, (1) HOST, (2) GR, (2) RS232 (1) TCP/IP	(4) DEVICE, (1) ETHERNET (1) RS232
Control Connector	(1) 4-pin DIP switch (2) USB Type-A, (1) RJ45 (1) Micro-USB, (1) USB Type-B (2) 3-pin terminal block (2) 3-pin terminal block, (1) RJ45	(3) USB Type-A, (1) USB Type-C (1) RJ45, (1) 3-pin terminal block



4.5 Video Specifications

	Transmitter	Receiver
Input	(1) HDMI IN, (1) USB-C IN	(1) HDBT IN
Input Connector	(1) Type-A female HDMI (1) Type-C	(1) RJ45
Input Resolution	HDMI: Up to 4K@60Hz 4:4:4 HDR10, Dolby Vision USB-C: Up to 4K@60Hz 4:4:4	Up to 4K@60Hz 4:2:0
Output	(1) HDMI OUT (1) HDBT OUT	(1) HDMI
Output Connector	(2) Type-A female HDMI	(1) Type-A female HDMI
Output Resolution	HDMI: Up to 4K@60Hz 4:4:4 HDR10, Dolby Vision HDBT: Up to 4K@60Hz 4:2:0	Up to 4K@60Hz 4:4:4 HDR10, Dolby Vision
HDMI Standard	Up to HDMI 2.0b	Up to HDMI 2.0b
HDCP Version	Up to HDCP 2.2	Up to HDCP 2.2

4.6 Audio Specifications

	Transmitter	Receiver
HDMI Embedded Audio Format	(1) HDMI IN, (1) USB-C IN	(1) HDBT IN
Output Connector	(1) 5-pin terminal block	
Frequency Response	20Hz–20KHz, ±3dB	
Max Output Level	0.88 V _{rms} ± 0.5 dB. 2 V = 16 dB headroom above -10 dBV (316 mV) nominal consumer line level signal SPDIF: ±0.05dBFS	
THD+N	< 0.05% (-80 dB), 20 Hz – 20 kHz bandwidth, 1 kHz sine at 0 dBFS level (or max level)	
SNR	> 80dB, 20Hz-20 kHz bandwidth SPDIF: > 90dB, 20Hz-20 kHz bandwidth	
Crosstalk Isolation	< -80 dB, 10 kHz sine at 0 dBFS level (or max level before clipping)	
L-R Level Deviation	< 0.3 dB, 1 kHz sine at 0 dBFS level (or max level before clipping)	
Output Load Capability	1k ohm and higher (supports 10x paralleled 10k ohm loads)	
Noise Level	>70dB @ 1 kHz	





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Thank you!