iTrans EM

18Gbps HDMI EDID & HDCP Manager

User manual V1.0

1. Product Introduction

The iTrans EM is a 18G HDMI manager with EDID & HDCP manager. It supports up to 4K@60 4:4:4 and HDCP2.2. The product is power by HDMI or USB-C, and it contains CEC dip switch and support auto-downscaling.

2. Feature

18G HDMI 2.0 4K@60 444 HDCP2.2.
Supports EDID & HDCP manage.
Power by HDMI or USB-C.
CEC block switch.

3. Package

1x iTrans EM
1x User Manual

4. Specification

Model	iTrans EM
Name	18Gbps HDMI Manager with EDID & HDCP Manager
Input	(1) HDMI 2.0
Input Connector	(1) Female type-A
HDMI Input Resolution	Up to 4K@60 4:4:4
Output	(1) HDMI 2.0
Output Connector	(1) Female type-A
HDMI Output Resolution	Up to 4K@60 4:4:4
Bandwidth	18Gbps
Power Supply	5V 1A
Power Consumption	2.4W(MAX)
Dimension (W*H*D)	54x18x60mm
Net Weight	85g

5. Panel Description
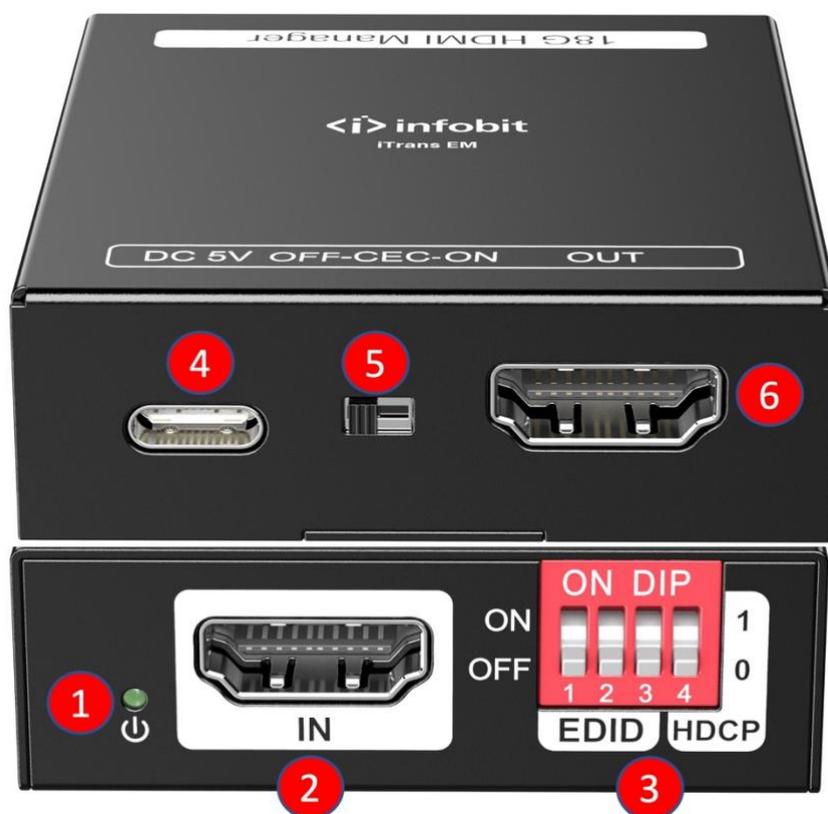
1. Power LED: The LED indicates green when power on.
2. HDMI IN: HDMI2.0 input, connect to source.
3. DIP Switch: 4-pin dip switch for EDID and HDCP management.
4. USB-C: USB-C is used to power the machine, upload EDID and firmware upgrade.
5. CEC Switch: Turn on/off the CEC
6. HDMI OUT: HDMI 2.0 output, connect to display.

6. System Connection
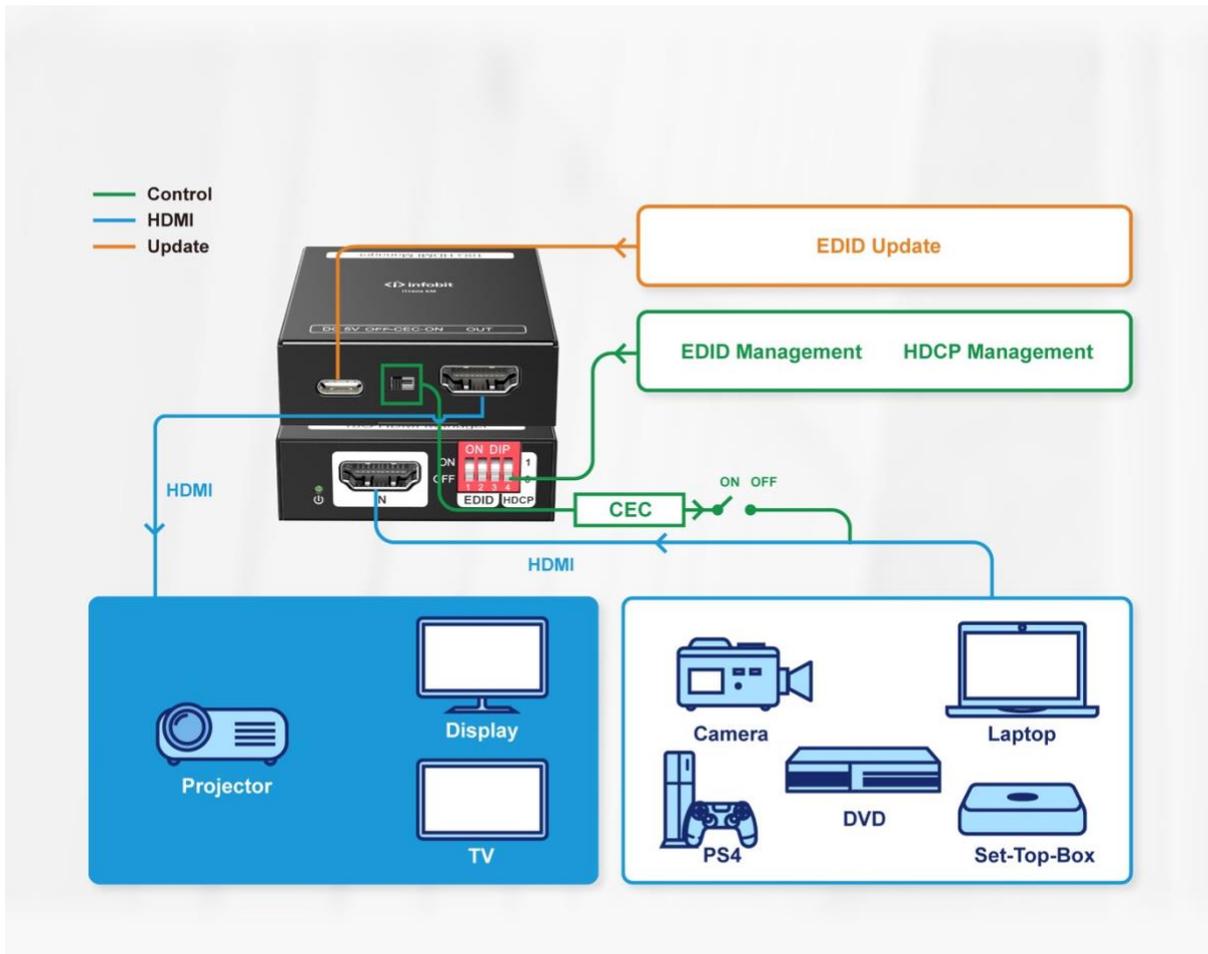
7. EDID&HDCP management

Predefined EDID Setting

Switch Status	Video Resolution	Audio Format
000	Obtain the Display EDID	
001	1080p	LPCM
010	1080p	DTS/ Dolby

011	3840x2160/30Hz HDR	LPCM
100	3840x2160/30Hz HDR	DTS/ Dolby
101	3840x2160/30Hz HDR	LPCM
110	3840x2160/30Hz HDR	DTS/ Dolby
111	User degined EDID	

User Defined EDID Setting

1) Rename the user defined EDID according the following format: **0803C000.DAT**

2) Connect the machine to the PC with USB cable, the PC will automatically detect a USB disk named of "BOOTDISK".

3) Copy the EDID file into the U-disk, and then open the U-disk. If there is a SUCCESS.
TXT file, it means that the EDID upload is successful.

4) Remove the USB cable, connect the adapter to power on the machine.

HDCP management

Switch Status	HDCP Function
1	Show a identify code to Source that no HDCP is supported by the device, then the source will assume that no HDCP is supported by the device and will send the content without HDCP encryption if the signal format allows it.
0	Switch off HDCP management

8. Firmware Upgrade

1) Rename the upgrade file according the following format: **08009000.APP**

2) Disconnect the HDMI and connect the PTHM1 to the PC with USB cable, the PC will detect a U-disk named of "BOOTDISK".

3) Copy the file into the U-disk, and then open the U-disk. If there is a SUCCESS.TXT file, it means upgrade is successful, and if there is an UNKNOW.TXT file, it means fail.