

Liberty

INT-USB3MS-C

USB3.2 Gen 1 Client/Remote side extender with
integrated DisplayLink technology for
Dual Screen extend applications



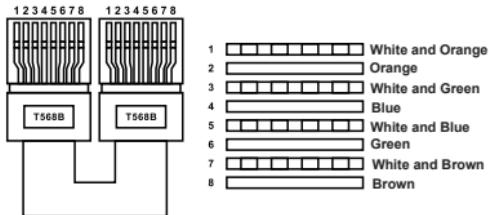
User Manual

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, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.



Direct Interconnection Method

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1. Introduction

This USB Client/Remote side uses HDBaseT USB3 Extension Technology and can be paired with INT-USB3-H or INT-USB3-HWP Host side extenders. This Extender can extend USB 3.2 Gen 1 5Gbps signal to a distance up to 100m/328ft via a single CAT6a U/FTP cable. This receiver features one USB-C & two USB-A client device ports and dual HDMI output ports. Integrated DisplayLink technology allows for true dual screen desktop extension from computers with DisplayLink drivers installed

Bi-directional 24V PoC (Power over Cable) function allows user to only supply power at the transmitter or the receiver.

It can be widely used for long distance USB and video signal transmission between USB sources and devices like webcams, PTZ cameras, keyboards, mouse devices, USB microphones, flash sticks, printers, scanners, touch panel displays and other USB devices.

2. Features

- ★ USB 3.2 Gen 1 up to 100m/328ft via CAT6a U/FTP cable
- ★ USB 3.2 Gen 1 connectivity with data transfer rate up to 5Gbps
- ★ Backwards compatible with USB 2.0
- ★ Hardware acceleration for isochronous and bulk transfer
- ★ USB downlink ports support USB 3.2 Gen 1
- ★ Dual HDMI outputs, with resolution up to 4K@60Hz
- ★ RS-232 pass-through
- ★ Firmware upgrade via USB-C service port
- ★ FSYNC GPIO pass-through for industry camera use
- ★ Bi-directional 24V PoC

3. Package Contents

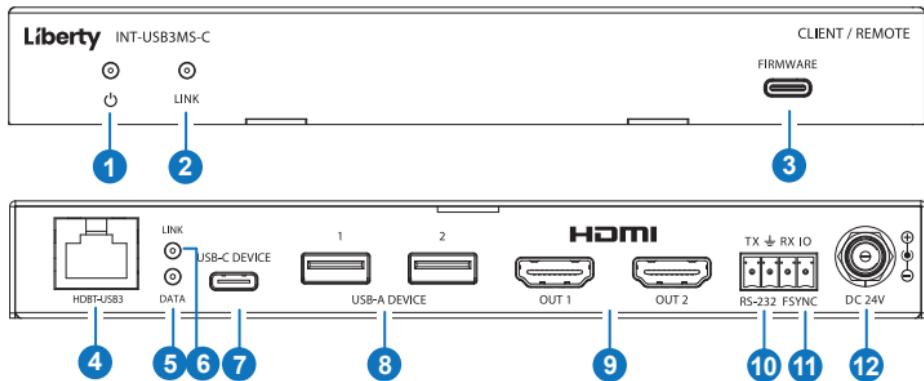
- ① 1× USB 3.2 Gen 1 Extender (Receiver)
- ② 1× 24V/2.7A Locking Power Supply
- ③ 1× 4pin-3.5mm Phoenix Connector (Male)
- ④ 2× Mounting Ear
- ⑤ 4× Machine Screw (KM3*4)
- ⑥ 1× USB Cable (USB-A 3.0 to USB-A 3.0, 2m)
- ⑦ 1× USB Cable (USB-A 3.0 to USB-C 3.0, 2m)
- ⑧ 1× User Manual

4. Specifications

Technical	
USB Protocol	USB 3.2 Gen 1
Transmission Rate	Up to 5Gbps
HDMI Compliance	HDMI 2.0b
HDMI Video Resolution	Up to 4K@60Hz
Transmission Distance	100m/328ft via CAT6a (U/FTP) cable 1.5m/4.9ft via USB cable 3m/9.8ft via HDMI passive cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Receiver	Input: 1× HDBT-USB3 [RJ45 connector, 24V PoC] Output: 2× USB-A DEVICE [USB Type A, 9-pin female] 1× USB-C DEVICE [USB Type C, 24-pin female] 2× HDMI OUT [Type A, 19-pin female] Control: 1× RS-232 [3pin-3.5mm phoenix connector] 1× FSYNC [1pin-3.5mm phoenix connector] 1× SERVICE [USB Type C, firmware update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	180mm [W] × 95mm [D] × 23mm [H]
Weight	450g
Power Supply	Input: AC 100~240V 50/60Hz Output: DC 24V/2.7A
Power Consumption	39.36W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing
COO	Made in Taiwan

5. Operation Controls and Functions

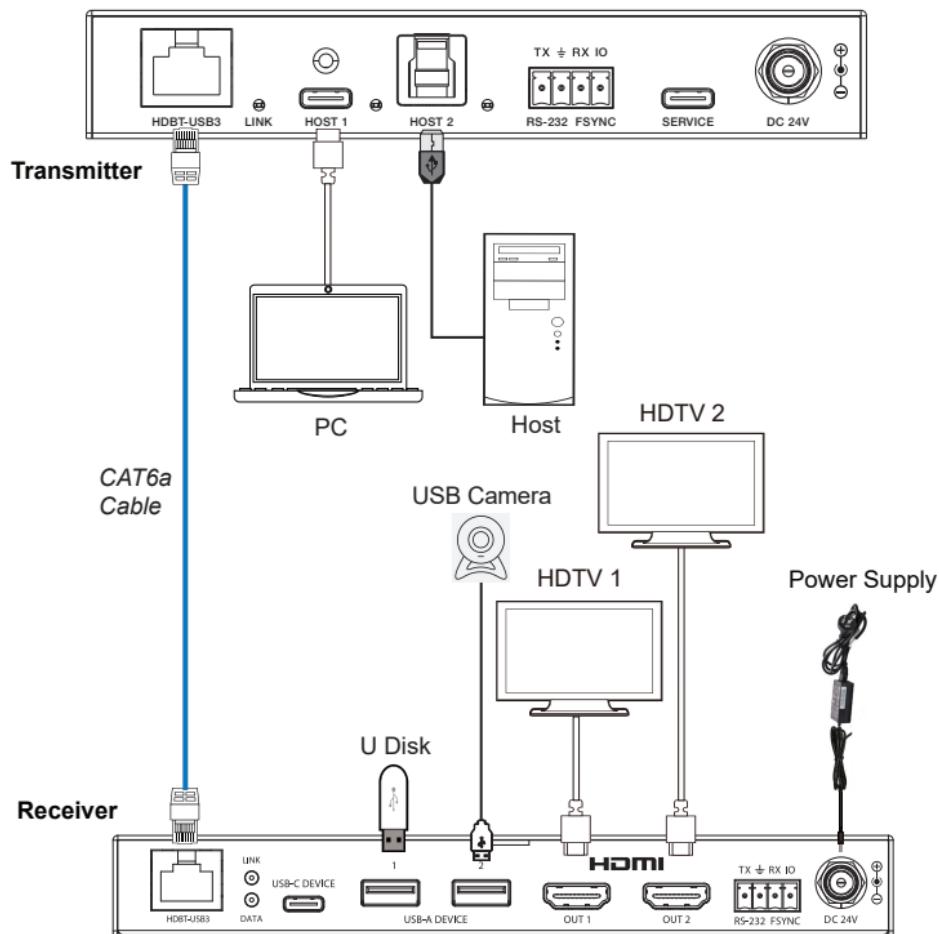
Panel Description



No.	Name	Function Description
1	Power LED	The red LED will be on when the device is powered on.
2	LINK LED	Connection signal indicator. - On: Transmitter and Receiver are connected and linked. - Off: Transmitter and Receiver are not connected.
3	FIRMWARE	USB 2.0 port, used for software upgrade of HUB, MCU and HDBT-USB3 chip.
4	HDBT-USB3	Connects to the HDBT-USB3 port on TX with CAT6a cable.
5	LINK LED	Connection signal indicator. - On: Transmitter and Receiver are connected and linked. - Off: Transmitter and Receiver are not connected.
6	DATA LED	USB signal indicator. - On: USB 3.0 signal is detected. - Blinking: USB 2.0 signal is detected. - Off: USB signal is not detected.
7	USB-C DEVICE	Downlink USB-C port, with output power up to 5V/1A. Connects to USB device such as U disk or hard disk.

No.	Name	Function Description
8	USB-A (1~2) DEVICES	Downlink USB-A ports, with output power up to 5V/1.5A. Connect to USB devices such as U disk or hard disk.
9	HDMI OUT (1~2)	HDMI output ports, connected to display device such as TV or monitor. Host device must support DisplayLink
10	RS-232	3pin phoenix connector, connected to a PC or control system for RS-232 command pass-through.
11	FSYNC	FSYNC port, the level pass through from Transmitter to Receiver, to synchronize the external devices. Default level range is 0~5V.
12	DC 24V	DC 24V/2.7A power input port.

7. Application Example



HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

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