

## PS-U32-100 | USB 3.2 HDBT EXTENDER

USB-C host input | Four remote USB device ports | Up to 100 m over CAT5e/6

### RECEIVER



### TRANSMITTER



## PRODUCT OVERVIEW

The Peapsonic PS-U32-100 is a professional USB 3.2 Gen 1 extension system designed to locate USB peripherals up to 100 metres from the host computer. A USB-C host connects to the transmitter; USB traffic is carried point-to-point over one CAT5e/6 cable to the receiver.

At the remote end, the receiver provides four device connections: two USB 3.0 Type-A ports and two USB Type-C ports. The metal TX/RX enclosures, 12 V DC power input and mounting flanges suit conferencing rooms, classrooms, control rooms, equipment racks and professional AV installations.

## KEY FEATURES

- USB 3.2 Gen 1 extension with data throughput up to 5 Gbps, subject to the complete host, peripheral and cabling chain.
- Up to 100 m point-to-point transmission over a dedicated CAT5e or CAT6 cable.
- Transmitter host interface: 1 x USB Type-C HOST port.
- Receiver device interfaces: 2 x USB 3.0 Type-A and 2 x USB Type-C.
- 12 V DC powered system with power/status indication.
- HDBT-USB3 RJ45 transport link between transmitter and receiver.
- Metal enclosure with integrated mounting flanges for fixed installation.
- Transparent USB transport for cameras, touch displays, storage, audio devices, scanners and other USB peripherals.

## FRONT / REAR CONNECTION VIEWS

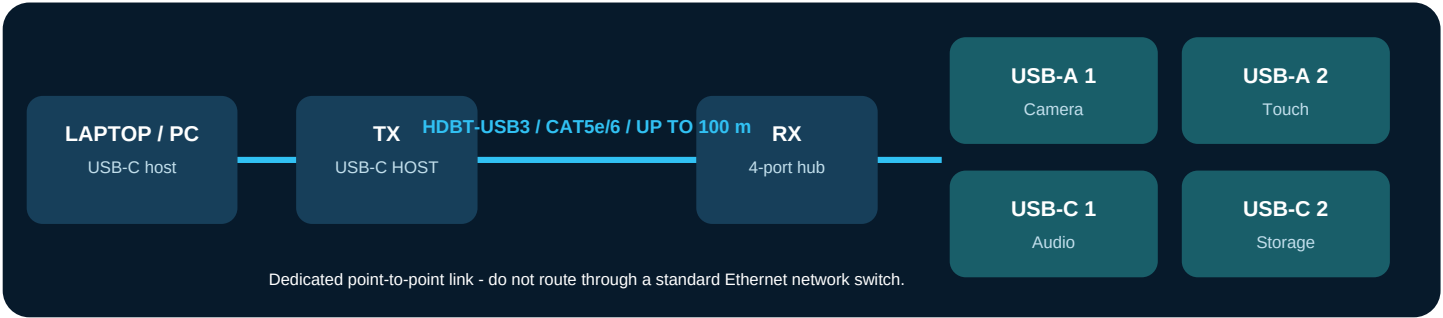


TX host/power/HDBT connections



RX power, four USB device ports and HDBT link

APPLICATION DIAGRAM - ONE HOST / FOUR USB DEVICES



CONNECTOR AND CONTROL DETAILS

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| TX - USB-C HOST      | Connects to a USB-C port on the laptop, PC or host system. |
| TX/RX - HDBT-USB3    | RJ45 extension link between the transmitter and receiver.  |
| RX - USB 3.0 Type-A  | Two device ports for remote USB-A peripherals.             |
| RX - USB Type-C      | Two device ports for remote USB-C peripherals.             |
| DC power             | 12 V DC input; use the specified regulated power adapter.  |
| PWR / USB indicators | Indicate power and USB link/activity status.               |
| FSYNC terminal       | Auxiliary frame-sync connection provided on the hardware.  |

TECHNICAL SPECIFICATIONS

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| Model               | PS-U32-100                                                          |
| USB standard        | USB 3.2 Gen 1; backward compatible with USB 3.0 / USB 2.0           |
| Maximum data rate   | Up to 5 Gbps; actual rate depends on connected equipment and cable  |
| Maximum extension   | Up to 100 m point-to-point                                          |
| Host interface      | 1 x USB Type-C on transmitter                                       |
| Remote device ports | 2 x USB 3.0 Type-A + 2 x USB Type-C on receiver                     |
| Transport interface | HDBT-USB3 RJ45 link                                                 |
| Recommended cable   | CAT5e or CAT6 solid-conductor cable; direct termination recommended |
| Power               | 12 V DC                                                             |
| Enclosure           | Black metal housing with mounting flanges                           |

INSTALLATION NOTES

- Connect the USB-C host to the transmitter before connecting remote peripherals.
- Connect TX and RX directly with a tested CAT5e/6 cable; do not use an Ethernet switch or router in the extension path.
- Apply 12 V DC power using the specified adapter and confirm the power/link indicators before use.
- For maximum distance and stability, use quality solid-copper structured cable and minimise couplers, patch joints and tight bends.
- USB-C device ports are for USB data connectivity; charging or video-alt-mode capability is not claimed unless separately confirmed.