

# INLINE® USB EXTENDER

## Cat.6, USB 3.2, 100m, Set



- **USB 3.2 Gen.1 with up to 100 m range:** Transmits USB signals at up to 5 Gb/s over a single RJ45 copper cable, enabling reliable long-distance bridging between the host system and USB end device.
- **Transparent RS-232 and FSYNC pass-through:** Serial control signals and 5 V synchronisation signals are transmitted unchanged from the transmitter to the receiver, enabling precise system integration.
- **Bidirectional Power over Cable with 40 W:** Power is supplied flexibly via the 24 V connection cable. Only one device unit needs to be powered, which reduces installation costs.
- **Robust metal housing with mounting option:** The stable construction in combination with the included mounting brackets enables secure integration into technical environments.
- **Energy-efficient operation with low-power mode:** When the connection is inactive, the system automatically reduces energy consumption, thus optimising continuous operation.

The InLine® USB 3.2 Gen.1 Extender allows USB signals to be extended over a single RJ45 copper cable with a range of up to 100 m. The system consists of a main unit as a transmitter and a receiver and operates as a fixed point-to-point connection without integration into active network components.

With a maximum data rate of up to 5 Gb/s, the extender supports isochronous, bulk and interrupt USB transfer types and is suitable for performance-intensive applications. In addition, RS-232 control signals and FSYNC signals with 5 V are transmitted transparently. The signals are not evaluated or influenced.

Power can be supplied either via the external power supply unit supplied or via Power over Cable. The PoC function works bidirectionally with 24 V and a maximum power of 40 W. This means that one device unit is sufficient for the power supply.

Four USB ports are available on the receiver. USB ports 1 and 2 supply up to 5 V / 1.5 A. USB ports 3 and 4 supply up to 5 V / 1.0 A.

### Technical features

#### Specifications

- USB standard: USB 3.2 Gen.1
- Maximum data rate: up to 5 Gb/s
- Supported USB transfer types: Isochronous, bulk, interrupt
- Transmission medium: RJ45 copper cable
- Recommended cable type: CAT6a
- Maximum transmission distance: up to 100 m
- Housing material: metal
- Operating temperature: 0 °C to +40 °C
- Storage temperature: -20 °C to +60 °C
- Permissible humidity (operation): 20–80%, non-condensing
- Permissible humidity (storage): 10–90%, non-condensing

#### USB power supply at the receiver

- USB ports 1 and 2: up to 5 V / 1.5 A
- USB ports 3 and 4: up to 5 V / 1.0 A

#### RS-232 pass-through

- Serial control signals are transmitted transparently between the transmitter and receiver.

#### FSYNC pass-through

- Pass-through of synchronisation signals; signal level 5 V.

#### Power over Cable (PoC)

- Bidirectional power supply via the connection cable possible
- PoC voltage: 24 V
- Maximum PoC power: 40 W

#### Low-power mode

- Automatic reduction of energy consumption when the connection is inactive.

| Item No. | Type     | EAN           |
|----------|----------|---------------|
| 57886D   | Extender | 4043718348770 |

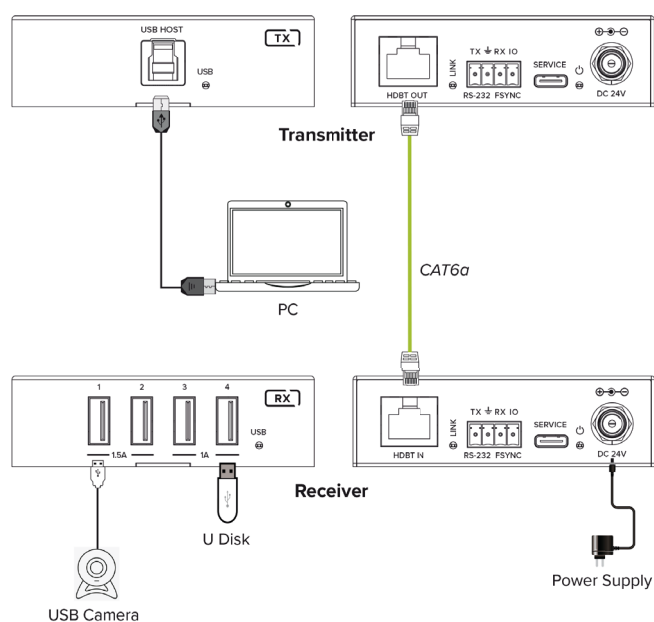
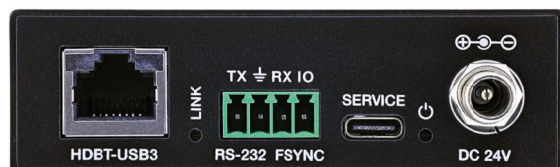
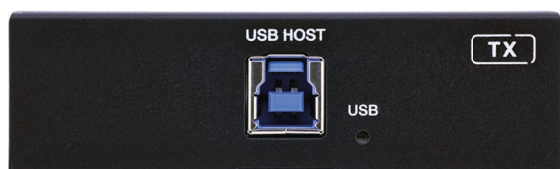
| Technical Data  |              |
|-----------------|--------------|
| Article height: | 2.60 cm      |
| Article length: | 11.00 cm     |
| Article width:  | 8.80 cm      |
| Interface:      | USB, RJ45    |
| Max. distance:  | 100 m        |
| Type 2:         | USB Extender |

### Power supply

- Input: AC 100–240 V / 50–60 Hz
- Output: DC 24.0 V / 2.0 A
- Output power: max. 48.0 W
- Average efficiency in operation (230 V / 50 Hz): 88.72%
- Power consumption at zero load (230 V / 50 Hz): 0.09 W
- Efficiency at low load (10%) (230 V / 50 Hz): 83.19%

### Scope of delivery

- 1 x USB extender – main unit (transmitter)
- 1 x USB extender – receiver
- 1 x power supply unit (DC 24 V / 2 A, lockable)
- 2 x 4-pin screw terminal connectors
- 4 x mounting brackets
- 8 x machine screws (M3 x 4)
- 1 x operating instructions (German/English)



If you have any further questions, please contact [marketing@inline-info.com](mailto:marketing@inline-info.com)

[www.inline-info.com/en/](http://www.inline-info.com/en/)

### Disclaimer

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