

SC-EXTUSB32-100M

USB EXTENDER

Model Number:#1504262142



Features

- Extends USB 3.0 signals up to **100m (328 ft)** over CAT6a cable
- Supports data transfer rates up to **5 Gbps**
- Backward compatible with **USB 2.0 / 1.1**
- Hardware acceleration for **isochronous** and **bulk transfers**
- **Four USB outputs** on receiver for multi-device connectivity
- Selective power output on receiver ports:
 - Ports 1–2: **5V / 1.5A**
 - Ports 3–4: **5V / 1A**
- **RS-232 pass-through** for control signal extension
- **FSYNC GPIO pass-through** for device synchronization
- **Bi-directional 24V PoC** for flexible power deployment
- **Plug-and-play**, no driver required

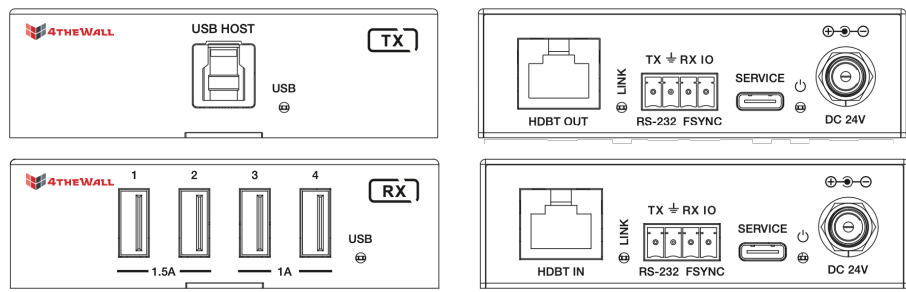
Product Overview

The USB 3.0 Extender is engineered to deliver reliable long-distance USB signal transmission of up to **100 meters (328 ft)** over a single **CAT6a cable**. The transmitter unit includes **one USB 3.0 Type-B host input**, **one FSYNC GPIO input**, and **one RS-232 pass-through interface**. The receiver unit is equipped with **four USB 3.0 Type-A device ports**, along with **one FSYNC GPIO output** and **one RS-232 pass-through interface**.

Supporting **bi-directional 24V Power over Cable (PoC)**, the system allows flexible and efficient power distribution between the transmitter and receiver units. This solution is ideally suited for professional environments requiring stable, high-speed USB connectivity over extended distances, such as industrial control systems, machine vision, and peripheral device integration.

Applications

- **Industrial Automation Systems**
Enables reliable long-distance connection between control PCs and USB-based industrial equipment in factory environments.
- **Machine Vision & Industrial Cameras**
Ideal for systems requiring **FSYNC** and **RS-232 pass-through**, ensuring precise synchronization and control of high-speed cameras.
- **Remote USB Device Extension**
Extends peripherals such as **keyboards, mice, storage devices, and printers** over long distances without signal degradation.
- **Control Rooms & Monitoring Centers**
Supports centralized system control by extending USB interfaces from secure server rooms to operator stations.
- **Medical & Laboratory Equipment**
Provides stable connectivity for sensitive USB-based diagnostic and imaging devices requiring distance and reliability.
- **Digital Signage & AV Installations**
Allows remote placement of USB devices (e.g., media players, touch panels, cameras) in professional AV environments.
- **Security & Surveillance Systems**
Enables long-distance connection of USB cameras and recording systems in security setups.





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Technical Specifications

Technical	
USB Protocol	USB 3.0
Transmission Rate	Up to 5Gbps
Transmission Distance	100 meter / 328 ft Over Cat6a (F/FTP) Cable
Connections	
Transmitter	Input : 1× USB HOST [USB-B, 9pin Female] Output: 1× HDBT OUT [RJ45, Female] Control: 1× RS-232 [3pin-3.5mm Phoenix Connector] 1× FSYNC [1pin-3.5mm Phoenix Connector] 1× SERVICE [USB-C, Update Port]
Receiver	Input: Output: 1× HDBT IN [RJ45, Female] 4× USB Devices [USB-A, 9pin Female] Control: 1× RS-232 [3pin-3.5mm Phoenix Connector] 1× FSYNC [1pin-3.5mm Phoenix Conn]
Mechanical	
Power Connection	AC100 - 240V 50/60Hz, DC 24V/2A
Working Temperature	32 - 104°F / 0 - 40°C
Humidity Range	20% - 90% RH (no condensation)
Storage Temperature	-4 - 140°F / -20 - 60°C
Dimensions	Transmitter / Receiver: 85mm [W] × 100mm [D] × 25.5mm [H]
Weight	Transmitter: 253g, Receiver: 260g
Power Value/Consumption	POC Power Supply: 40Watt (Max)
Mounting	Desktop
ESD Protection	±8kV (Air-Gap Discharge) & ±4kV (Contact Discharge)
Certifications	
EU/USA	CE DOC
Package Details	
Package Contents	1 × USB 3.0 Extender (Transmitter) 1 × USB 3.0 Extender (Receiver) 1 × 24V/2A Locking Power Supply 2 × 4-pin 3.5mm Phoenix Connector (Male) 4 × Mounting Ear 8 × Machine Screw (KM3*4) 1 × User Manual