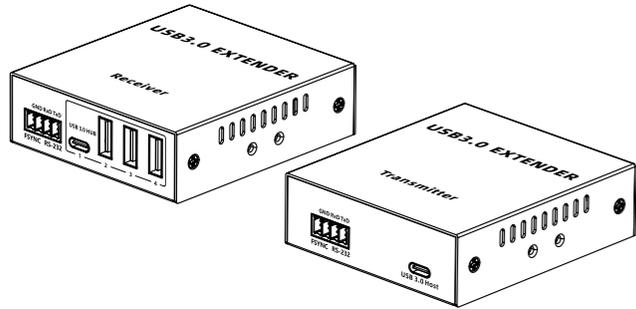# Rocstor®

TrueReach TR16 4-Port USB 3.0
Over Cat6/6a/7 Extender

User Manual
Y10G016-B1

Important Safety Notice

- **Electrical Safety:** Always ensure that all connected devices are properly grounded to avoid the risk of electric shock.
- **Heat Exposure:** Keep this device away from radiators, heat registers, and direct sunlight to prevent overheating.
- **Placement Stability:** Place the device on a stable, level surface. Positioning it on an uneven or unstable surface may cause it to fall, potentially leading to damage or malfunction.
- **Water Protection:** Avoid exposing the device to rain or placing it near water sources. Contact with liquids can result in malfunctions, fire hazards, or electric shock.
- **Power Supply Requirements:** When using a third-party power supply, ensure its specifications align with the product's requirements to maintain optimal performance and safety.
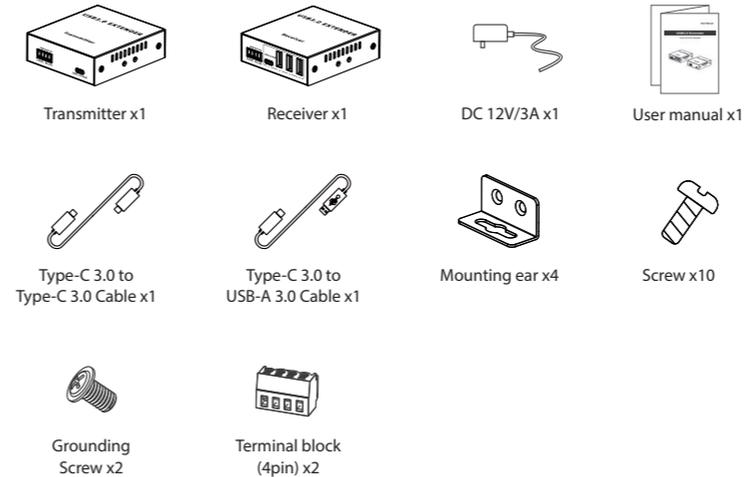
Introduction

The TrueReach TR16 provides reliable one-to-one connections over CAT6, CAT6A, or CAT7 network cables, supporting transmission distances of up to 164ft (50m) with CAT6 and 295ft (90m) with CAT6A. With support for four USB 3.0 device channels and backward compatibility with USB 2.0 and USB 1.1, it accommodates a wide range of peripherals, including printers, cameras, scanners, USB flash drives, keyboards, mice, and touchscreens. Perfect for applications in security monitoring, gaming, industrial control, professional AV setups, smart medical systems, and other high-performance environments, this extender ensures seamless connectivity and exceptional performance for demanding workflows.
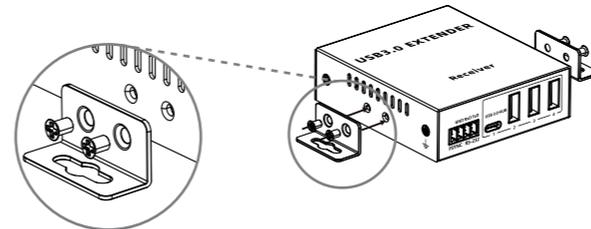
Features

- USB Compatibility: The transmitter supports USB 3.0 SuperSpeed and is fully compatible with USB 3.2 Gen 1x1 and USB 3.1 Gen 1. The receiver supports USB 3.0 SuperSpeed, USB 2.0 High-Speed, and USB 1.1 Full-Speed.
- Input and Output: Accommodates up to four USB 3.0 inputs and provides one USB 3.0 output.
- Cable Compatibility: Works seamlessly with CAT6, CAT6A, and CAT7 network cables, offering transmission distances of up to 164ft (50m) with CAT6 and 295ft (90m) with CAT6A.
- USB Hub Support: Compatible with USB hubs for expanded device connectivity.
- Hot-Plugging: Enables hot-plugging of USB devices and automatically detects USB standards.
- Power Over Cable (PoC): Only the receiver requires a power supply, simplifying setup.
- Advanced: Supports RS-232 communication and frame synchronization for precise operations.
- Firmware Upgrades: Firmware can be easily updated via the Micro USB port.
- Robust Protection: Built with lightning protection, surge protection, and ESD protection to ensure durability and reliability.
- Performance: Designed for continuous 24/7 operation, ensuring stable and consistent result.

Package Contents

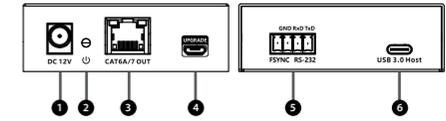|			
Transmitter x1	Receiver x1	DC 12V/3A x1	User manual x1
Type-C 3.0 to Type-C 3.0 Cable x1	Type-C 3.0 to USB-A 3.0 Cable x1	Mounting ear x4	Screw x10
Grounding Screw x2	Terminal block (4pin) x2		

Wall Mounting

Choose the wall mounting position and attach the mounting ears to the unit according to the diagram.

Panel Description
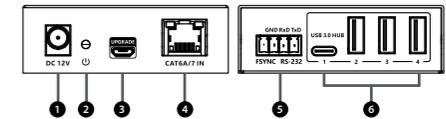
1. Transmitter (Local Side)

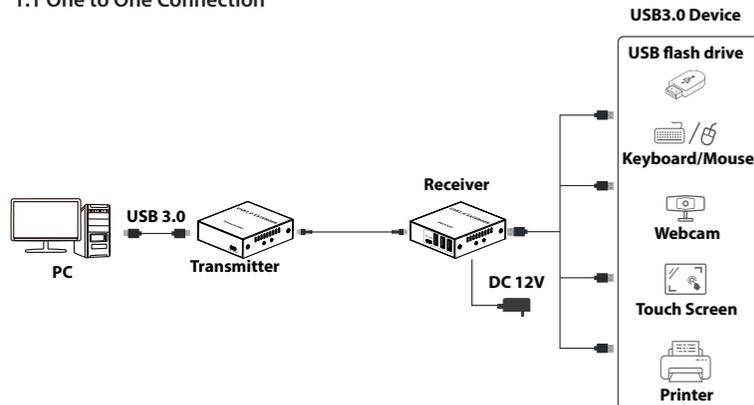|		
❶	Power Input	PoC, only RX power supply is needed
❷	Power Indicator	1) Steady on: Powered on; 2) Light off: Powered off
❸	RJ45 Output Port	Connect with CAT6/6A/7 network cable Green LED-steady on: Established connection between TX and RX Yellow LED-steady on: Transmitting USB3.0 signals
❹	Micro USB Port	For firmware upgrading and functional configuration using software tools
❺	RS-232/FSYNC Interface	RS-232 passthrough commands; Frame synchronization signal input
❻	USB Host 3.0 Port	Connect USB 3.0 port of computer host, compatible with USB 3.2 Gen1x1, USB 3.1 Gen1

2. Receiver (Remote Side)

❶	Power Input	Connect with DC 12V/3A power adapter
❷	Power Indicator	1) Steady on: Powered on; 2) Light off: Powered off
❸	Micro USB Port	For firmware upgrading and software function configuration
❹	RJ45 Input Port	Connect with CAT6/6A/7 network cable Green LED-steady on: Established connection between TX and RX Yellow LED-steady on: Transmitting USB3.0 signals
❺	RS-232/FSYNC Interface	RS-232 passthrough commands Frame synchronization signal output
❻	USB Host Port	Connect with USB3.0/2.0/1.1 device, such as printer, camera, scanner, USB flash drive, keyboard, mouse, touchscreen, etc.

Installation Procedures

1.1 One to One Connection

USB3.0 Device
- USB flash drive
- Keyboard/Mouse
- Webcam
- Touch Screen
- Printer

PC — **USB 3.0** — **Transmitter** — **Receiver** — **DC 12V**

1.2 Connection Instructions

1. Separately connect the computer host and the transmitter with USB cable, the receiver connects to USB devices, such as: printer, camera, scanner, USB flash drive, keyboard, mouse, touchscreen, etc.
2. One to one connection, connect the transmitter and receiver with CAT6/6A/7 network cable.
3. Connects to the power supply, then the product starts to work.

FAQ

USB device is not recognized when connected?
- Check whether USB port of the transmitter is connected to the USB 3.0 interface properly.
- Power the transmitter or receiver again.

The receiver is unstable when connected to an external hard drive?
- When connecting high-power USB devices, it is necessary to offer additional power to external devices.

Specification

Items	Parameters
Transmitter USB	USB 3.0, compatible with USB 3.2 Gen1x1, USB 3.1 Gen1
Receiver USB	USB 3.0, compatible with USB 2.0, USB 1.1
Transmission Distance	CAT6 ≤ 50m; CAT6A ≤ 90m
USB Device	Support printer, camera, scanner, USB flash drive, keyboard, mouse, touch screen... etc
USB Hot-Plug	Support
USB Port	3 USB-A 3.0 input and 1 Type-C 3.0 input 1 Type-C 3.0 output
Physical Properties	
Housing	Iron
Dimensions	85.0(L) x 76.0(W) x 25.0(H) mm
Weight	Tx:172g Rx:182g
Color	Black
Power	
Power Supply	RX：DC 12V/3A
Power Consumption	TX+RX ≤ 8W
Operating Environment	
Working Temperature	-20～60℃
Storage Temperature	-30～70℃
Humidity	0～90%（No condensation）
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2
	Lightning protection, Surge protection
Application	
Industrial Control, Professional AV, Security and Monitoring, Gaming, etc.	

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