

AT UE-50



USB Extender | USB 2.0 CAT5/5e/6 Extender 50M

USB 2.0 extender that transmits USB signal up to 50 meters over a single CAT5/5e/6 cable at up to 480Mbps, with simple plug-and-play setup and no drivers required.

USB 2.0

480Mbps

50m Range

Plug & Play

2 USB Ports

CAT5/5e/6



The AT UE-50 is a USB 2.0 extender that transmits USB signal up to 50 meters over a single CAT5/5e/6 cable. The transmitter accepts one USB-B input from a PC, while the receiver provides two USB 2.0 outputs for connecting devices such as printers, U-disks, or other peripherals over long distances.

USB Protocol USB 2.0	Transmission Rate Up to 480Mbps	Max Distance 50m / 164ft
TX Power USB-B Bus Powered	RX Power DC 5V/1A	RX Outputs 2× USB 2.0 (USB-A)

IDEAL FOR

Offices

Extend USB peripherals like printers and scanners across the room.

Retail Counters

Connect POS scanners and card readers over long CAT cable runs.

Industrial Sites

Reach USB devices in areas beyond standard USB cable length limits.

Server Rooms

Extend USB storage and peripheral access to remote equipment racks.

PRODUCT DESCRIPTION

The AT UE-50 is a USB 2.0 extender that can extend USB signal up to 50m/164ft via a single CAT5/5e/6 cable, with transmission distance up to 40m/131ft when additional USB 2.0 hubs are used in the link. The product is widely used for long-distance signal transmission between a PC and USB devices, with simple plug-and-play operation requiring no driver or setting installation.

The transmitter connects to a PC via a USB-B port and outputs over a CAT port (RJ45) to the receiver, which provides two USB-A output ports for connecting peripherals such as printers or U-disks. The transmitter draws power directly from the connected USB-B device, while the receiver requires a separate DC 5V/1A power supply.

Each additional level of USB hub between host and device in the entire link shortens the CAT cable transmission distance by approximately 12m/39ft, per the USB 2.0 protocol specification. ESD protection rated at ±8kV air-gap discharge and ±4kV contact discharge (human-body model) helps safeguard the unit against electrical spikes and static discharge in real-world installations.

■	USB 2.0
	USB Protocol
■	480Mbps
	Max Transmission Rate
■	50m
	Max Distance (164ft)
■	±8kV
	ESD Air-Gap Protection
■	100g
	Unit Weight (Each)
■	82×49×20mm
	Unit Dimensions

PRODUCT KEY FEATURES

 Single-Cable USB Extension Extends USB 2.0 signal up to 50 meters over a single CAT5/5e/6 cable, transmitting data at rates up to 480Mbps for full-speed USB 2.0 performance.	 Dual USB 2.0 Output Ports The receiver provides two USB 2.0 (USB-A) output ports, enabling connection of two peripherals such as a printer and a U-disk from a single extended link.	 Direct Interconnection Wiring Requires standard UTP direct interconnection wiring (not cross-connect) using CAT5/5e/6 cable terminated with RJ45 connectors on both ends.
 Bus-Powered Transmitter The transmitter is powered directly by the connected USB-B host device, eliminating the need for a separate power supply at the PC end.	 Simple Plug-and-Play Setup No drivers or software installation required — simply connect the USB and CAT cables and the extender is ready to use immediately.	 Compact Metal Enclosure Durable black metal housing at just 82×49×20mm and 100g per unit allows discreet placement near a PC or workstation.
 ESD Surge Protection Human-body model ESD protection rated ±8kV air-gap and ±4kV contact discharge helps protect connected equipment from static and electrical surges.	 Wide Operating Temperature Range Rated for 0°C to 40°C operation and -20°C to 60°C storage, suitable for office, retail, and light industrial environments.	 Status Indicator LEDs Both transmitter and receiver feature a green power LED that illuminates once each unit is properly powered, simplifying installation verification.

TECHNICAL SPECIFICATIONS

TECHNICAL

USB Protocol	USB 2.0
Transmission Rate	Up to 480Mbps
Transmission Distance	50m/164ft (Up to 40m/131ft with Some USB 2.0 Hubs)
ESD Protection	Human-Body Model: $\pm 8\text{kV}$ (Air-Gap), $\pm 4\text{kV}$ (Contact)

CONNECTIONS

Transmitter Input Port	1 × USB (To PC) [USB-B, Female]
Transmitter Output Port	1 × CAT [RJ45, Female]
Receiver Input Port	1 × CAT [RJ45, Female]
Receiver Output Ports	2 × USB 2.0 [USB-A, Female]

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimensions (TX/RX)	82mm (W) × 49mm (D) × 20mm (H)
Weight (TX/RX)	100g

POWER & ENVIRONMENTAL

Power Supply	Input AC100~240V 50/60Hz, Output DC 5V/1A
Power Consumption	Transmitter: 0.7W, Receiver: 1W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (Non-Condensing)

PACKAGE CONTENTS

Included Items	1 × Transmitter, 1 × Receiver, 1 × USB Cable (USB-B to USB-A, 1m), 1 × 5V/1A Power Adapter, 1 × User Manual
----------------	---

