

NORRD

USB 2.0 480Mbps Extender kit 50 m. | NU1-100



Reliable long-run USB 2.0 extension.

The NU-N100 extends USB 2.0 connectivity up to 50 m using a single CAT5/5e/6 cable, maintaining the full 480 Mbps data rate of the USB 2.0 specification. This solves the fundamental distance limitation of native USB, which typically fails beyond 5 m without active extension — a common problem in installed AV environments where the host PC sits in a rack or credenza and USB peripherals are positioned at the table, lectern, or display end of the room.

The transmitter takes its power directly from the host PC's USB port, requiring no separate power supply at the source end. A single USB-B connection to the PC carries all data upstream. At the remote end, the receiver provides two USB-A output ports for connecting peripherals — cameras, speakerphones, touch screens, printers, USB drives, or HID devices such as keyboards and mice. The receiver requires a DC 5 V/1 A power supply, which is included.

ESD protection is built into both units at ±8 kV air-gap discharge and ±4 kV contact discharge, providing resilience against static events that are common in dry office environments and industrial settings. The compact metal enclosures (82 × 49 × 20 mm, 100 g each) mount discreetly behind displays, under tables, or inside furniture cavities.

One consideration for system design: each USB hub in the signal chain between host and device reduces the achievable CAT cable distance by approximately 12 m. In a direct PC-to-extender connection with no intermediate hubs, the full 50 m is available. Where an existing USB hub sits between the PC and the transmitter, plan for a reduced maximum of around 40 m.

Installation is plug-and-play with no drivers or software required. Standard straight-through (T568B) CAT cable wiring is used. The NU-N100 is a practical solution for conference rooms where a room PC needs to reach a ceiling camera and table speakerphone, classrooms with interactive displays, and control rooms where operator peripherals are separated from the host system.

KEY FEATURES

Key Features

- Extends USB 2.0 up to 50 meters over a single CAT5e/6 cable
- Supports up to 480 Mbps bandwidth for peripherals and touch devices
- Plug-and-play operation with no drivers required
- Receiver provides two USB-A ports for multiple devices
- Bidirectional power design lets you power the system from either end for flexible installation

DATA	
USB Protocol	USB 2.0
Transmission Rate	Up to 480Mbps
Plug & Play	Yes (No driver required)
TRANSMISSION	
Cable Type	Cat5 / Cat5e / Cat6 UTP
Max Distance	50m (164ft)
Max Distance (with USB 2.0 Hub)	40m (131ft)
Hub Distance Reduction	~12m per additional Hub level
Termination Standard	Direct interconnection method
CONNECTORS (TX)	
USB Input	1x USB-B Female (To PC)
CAT Output	1x RJ45 Female
CONNECTORS (RX)	
USB Output	2x USB-A Female (USB 2.0)
CAT Input	1x RJ45 Female
POWER	
Power Supply (RX)	AC 100-240V 50/60Hz input, DC 5V/1A output
TX Power	Powered via USB-B connection from PC
Power Consumption (TX)	0.7W
Power Consumption (RX)	1W
ESD PROTECTION	
Air-Gap Discharge	±8kV
Contact Discharge	±4kV
MECHANICAL	
Dimensions (W×D×H)	82mm × 49mm × 20mm (per unit)
Weight	100g (per unit)
Housing	Metal Enclosure
Color	Black
ENVIRONMENT	
Operating Temp	0°C ~ 40°C (32°F ~ 104°F)
Storage Temp	-20°C ~ 60°C (-4°F ~ 140°F)
Relative Humidity	20-90% RH (non-condensing)
PACKAGE CONTENTS	
Transmitter	1 pc
Receiver	1 pc
USB Cable (USB-B to USB-A)	1 pc (1m)
5V/1A Power Adapter	1 pc
User Manual	1 pc