



U2-160

USB 2.0 over UTP Extender

USB 2.0 Extender on Single UTP Cable
To 165 ft (50 m)

UMA1198 Rev. N/C

**CUSTOMER
SUPPORT
INFORMATION**

Order toll-free in the U.S. 800-959-6439
Technical support, Call **714-641-6607**
1163 Warner Ave. Tustin, CA 92780
www.hallresearch.com

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FCC STATEMENT

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been designed to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are intended to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



1. Introduction

1.1 General

Thank you for purchasing the USB 2.0 Extender. This USB 2.0 Extender is capable of sending USB signals across a Cat5/5e/6 cable up to 50 meters at data rate of High Speed (480 Mb/s), Full Speed (12Mb/s) and Low Speed (1.5 Mb/s). Only one power supply is required for operation.

Setting up the USB 2.0 Cat 5 extender is quite simple. It only takes minutes to setup and no software drivers are required. The USB 2.0 Extender is backwards compatible with the USB 1.0/1.1.

Hall Research's USB 2.0 extender can extend broad range of USB devices like Web Camera, Printer, Keyboard, Mouse, Hard Disk Drives and Surveillance Camera over 165 ft (50 m) using single Cat 5/6 cable.

1.2 Features

- Allows any USB device to be remotely located by up to 50m (164 ft) using Cat6 UTP cable
- Plug-and-Play. No software or drivers needed
- Support for high-speed (480 Mb/s), full-speed (12 Mb/s) or low speed (1.5 Mb/s) USB device
- Supports suspend/resume protocol for green operation.
- Supports Hot Plug/Unplug.
- Economical.

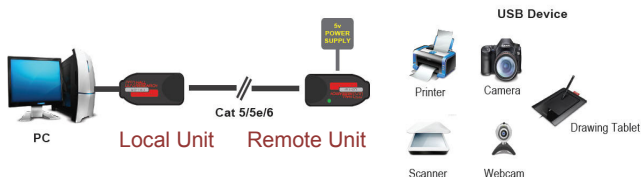
2. Installation

Before installation please check items in the package.

- Local Unit with 1 ft cable attached.
- Remote Unit with LED Indicator & DC jack
- Universal Power Adapter

Input Output Connections

- Connect the Local Unit to the Host System (or PC) via the built-in molded USB cable on Local Unit.
- Connect the Local and Remote Units together using a Cat6 cable(Max distance is 50m or 165 ft)
- Connect any USB peripheral (such as printer, scanner, HDD, etc) to the Remote Unit.
- Plug the included 5V/2A power supply to the extender's Remote Unit. Local Unit does not need a power supply as it is provided by the Host (or PC).
- Check the LED on USB 2.0 Extender Remote Unit. Make sure that the LED on Remote Unit illuminates in solid green light that means the extenders are powered and communicating.



4. Troubleshooting

If host PC fails to detect USB device, check the LED status on the Remote unit. Make sure LED is illuminated. CAT6 cable is recommended particularly if the length is longer than 100 ft. Reboot the Host PC. Unplug the local unit from the Host PC and connect it to a different USB port if available.

There are no field serviceable parts or circuits in the device. Opening the device will void the warranty. If you think the device is malfunctioning, please contact Hall Research.

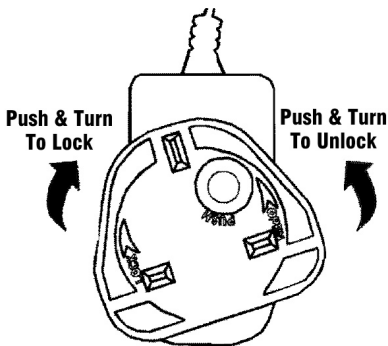
5. Specifications

Local Unit	Upstream Port	USB Type A Male
	Downstream Port	RJ 45 Jack
	Power	Bus Powered
Remote Unit	Upstream Port	USB Type A Female
	Power	External 5V Supply
Dimensions	2.6 x 1.4 x 0.8 inch (66 x 36 x 20 mm)	
Interconnect Cable	Standard category 5e/6 UTP or STP CAT6 Recommended	
Max Cable Length	50 m (164 ft)	
Power Supply	Universal AC input, 5vDC @ 2A output Hall Research P/N 511-PA1015-1L	
Operating Temperature	32 to 150 °F (0 to 65 °C)	

Using the Multi Country Power Adapter

Identify the plug that you need for your country. Insert the required plug into the adapter. The plugs are keyed to avoid incorrect insertion. Push the plug firmly towards the housing, twist and allow the latch on the adapter to click into place. To remove, push the button marked and twist in the opposite direction.

Make sure the plug is locked firmly in place before use!



CAUTION!

Keep out of reach of children

NEVER insert just the plug by itself into AC mains



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