



U2-160-DP



**USB 2.0 over UTP Extender
with Wall Plate Local Side**

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

UMA1223 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

Contents

1. Introduction	2
1.1 General	2
1.2 Features	2
2. Installation	3
3. Troubleshooting	4
4. Specifications	4
5. Using the Multi Country Power Adapter	5

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 Hall Research's USB 2.0 Extender. This USB 2.0 Extender is capable of sending USB signals across a Cat5e/6 cable up to 50 meters at data rates of High Speed (480 Mb/s), Full Speed (12Mb/s), or Low Speed (1.5 Mb/s). The Host (PC) side comes as a wall plate with Decora® form factor and requires no power supply, the Remote (device) side is a small module with a Type-A USB connector to which you can plug virtually any USB device. A power supply is provided for connection to the remote end.

Hall Research's USB 2.0 extender can extend broad range of USB devices like web camera, printer, keyboard, mouse, disk drives and webcams over 165 ft (50 m) using single Cat 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
- Host side comes as a Decora® wall-plate
- Supports Hot Plug/Unplug.
- Economical.

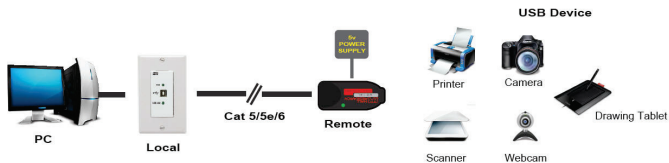
2. Installation

Before installation please check items in the package.

- Local wall-plate Unit with white bezel
- 6 ft usB A to B cable
- Remote Unit with LED Indicator & DC jack
- Universal Power Adapter with worldwide plugs

Connecting the Extender

- Connect the wall plate (local) to the host system (or PC) using the supplied USB cable.
- Connect the Local and Remote Units together using a Cat6 cable(maximum distance is 165 ft, Cat5e cables can also be used to 120 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.
- Check the LEDs on USB 2.0 local and remote units for proper operation.



3. Troubleshooting

If host PC fails to detect USB device, check the LED status on the local and remote units. Make sure LEDs are 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.

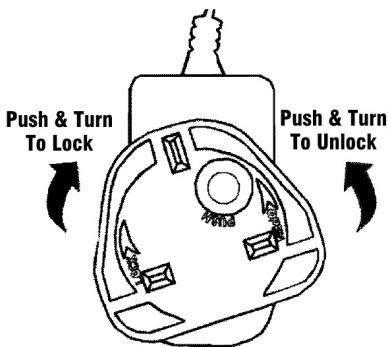
4. Specifications

Local Unit	Upstream Port	USB Type B Female
	Downstream Port	RJ 45 Jack
	Power	Bus Powered
Remote Unit	Downstream Port	USB Type A Female
	Power	External 5V Supply
Dimensions	Local: 4.5 x 2.7 x 1.8 inch (114 x 69 x 46mm) Remote: 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)	

5. 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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