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U22-160

USB 2.0 over UTP Extender with 2-port Hub Supports PoC (Power-over-Cable), Includes Power supply, extend up to 165 ft (50 m) High Speed (480 mbps)

USER MANUAL

December 12, 2023



Important Safety Instructions



1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



5. Do not place sources of naked flames, such as lighted candles, on the unit.



6. Clean this apparatus only with dry cloth.



7. Unplug this apparatus during lightning storms or when unused for long periods of time.



8. Protect the power cord from being walked on or pinched particularly at plugs.



9. Only use attachments / accessories specified by the manufacturer.

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Introduction

OVERVIEW

Thank you for purchasing U22-160 for your application. The
U22-160 extends your host PC's USB 2.0 port across a single Cat5e/6 cable to 50 meters (165 ft) with data rates up to 480 Mb/s.

In most instances, no power supply is needed for either side as the local (host) side gets its power from the PC, and it sends PoC (Power-over-Cable) to the remote (device) side. However, for convenience a power supply is included that can be plugged in to the remote end for power hungry USB devices. The remote end has a two-port hub built-in to allow connection of 2 USB Devices. The U22-160 is a perfect solution for industrial and commercial applications.

This product can be used to extend a broad range of USB devices like webcams, printers, keyboards, and disk drives up to 165 ft (50 m) using single Cat 5/6 cable.

FEATURES

- Extends USB 2.0 devices up to 165 ft (50 m) using Cat5.
- Supports high-speed, full-speed, and or low-speed devices.
- Status LEDs indicate Power and Data • Supports Hot Plug/Unplug.
- Can power most USB devices without power supply.
- Includes power supply for power hungry USB devices.
- Plug and Play installation.
- Surface/Wall mount brackets included.

Package Contents

U22-160 Local Unit
U22-160 Remote Unit
USB A to B Cable for Local Unit
Universal Power Adapter

Installation

- Place the U22-160 Local and remote units at the desired location and connect their RJ45 connectors using a Cat5/6 cable. (Max distance is 165 ft (50m))
- Connect the Local Unit to the Host System (or PC) via the type B USB Cable.
- Connect any USB peripherals (such as printer, scanner, HDD, etc) to the Remote Unit.
- If required, plug the included 5V/2A power supply to the Remote Unit. See Using External Power for more details.
- Check the LEDs on the unit. Make sure that Power and Data LED illuminates in solid green light, which means the extenders are powered and communicating.

Using External Power

U22-160 draws power from the computer to serve the remote end devices. When devices connected to the remote end require more power the voltage drop in the cable may become an issue. The U22-160 includes an external power supply to serve this additional power requirement, which should be used at the Remote end.

Troubleshooting

If PC fails to detect the USB device, check the LED status on the Remote unit. Plug the power supply if needed. Cat6 cable is recommended particularly if the length is longer than 100 ft. Reboot the Host PC. Connect to a different USB port on the PC. Try connecting an external hub to the remote unit and plug the device to the hub.

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 Technologies.

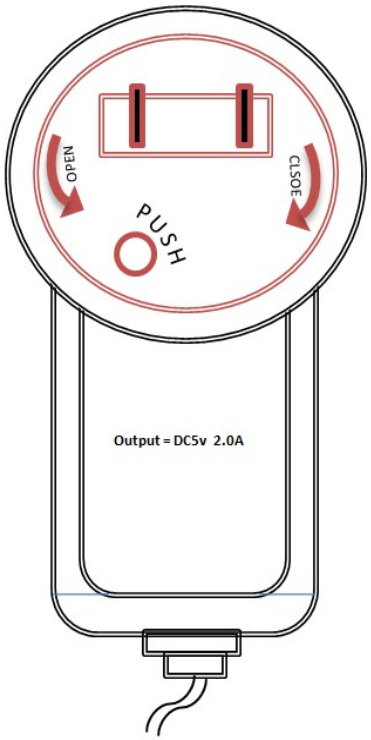
Specifications

General	
Bus interface	USB 2.0
Number of ports	2 (on the Remote Unit)
Connectors	Local Unit: 1x USB type B female, 1x RJ45 Ethernet female, 1x DC power supply Remote unit: 2x USB type-A female, 1x RJ45 ethernet female, 1x DC power supply
LEDs	1x Power, 1x Data
Max Data Rate	480 Mbps
Max Cable Distance	50m (165 ft)
Cable Type	Cat 5e/6/6a
Power Supply	5V DC 2A
Operating Temperature	0°C - 50°C (32°F - 122°F)
Operating Humidity	20% - 80% RH
Dimensions	Ends: 2.5 x 1.3 x 0.9 inch (65 x 35 x 25 mm) Shipping: 9.5 x 8 x 3 inch (24 x 20 x 8 cm)
Weight	Shipping: 1 llbs (450 g)

Using Universal 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 lock button to turn left to unlock the plug, place the required plug into the adaptor slot and turn right until you here the click sound.

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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