

LINDY®

CONNECTION PERFECTION

USB 2.0 Cat.5 Extender Pro

Manual

English



LINDY No. 42697

www.lindy.com



Introduction

Thank you for purchasing the LINDY USB 2.0 Cat.5 Extender. The USB Cat.5 Extender is composed of a transmitting and receiving unit, and enables any USB host device to send data up to 100 metres

Package Contents

- Local Unit
- Remote Unit
- Power Supply with 3 power cords with EU/US/UK connector*
- USB Cable
- LINDY QSG

*This LINDY USB 2.0 Cat.5 Extender provides the option to apply power at the local or remote extender. The supplied 24V, 1A power adapter can be connected to either the local or remote extender for normal operation. This option gives added flexibility/convenience for installers who can carry one product for multiple customers. Never power both – local and remote - extenders as the units may be damaged.

Specifications

Range	100m (330ft) over Cat 5e (or better) cable
USB device support	High-speed devices (480 Mb/s) (USB 2.0) Full speed devices (12 Mb/s) (USB 1.1) Low speed
USB hub support	Any single chain can include up to 4 USB hubs plus 1 USB
USB host support	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)
Maximum USB devices supported	14 USB devices or 4 USB hubs with 10 USB devices.
AC adapter	Input: 100/240 V AC, 50 – 60 Hz, 600 mA maximum Output: 24V DC, 1A
AC adapter connector	2.1 mm centre-positive jack
Current available to USB device at remote extender	500 mA
System shipping weight	1.35 lbs. (0.62 kg)
Local Extender	
USB connector	1 x USB Type B
Link connector	1 x RJ45
Dimensions	3.35" x 1.10" x 2.25" (85 mm x 28 mm x 57 mm)
Remote Extender	
USB connector	1 x USB Type A
Link connector	1 x RJ45

Dimensions	3.35" x 1.10" x 2.25" (85 mm x 28 mm x 57 mm)
Environmental	
Operating temperature range	32°F to 122°F (0°C to 50°C)
Storage temperature range	-4°F to 158°F (-20°C to 70°C)
Operating humidity	20% to 80% relative humidity, non-condensing
Storage humidity	10% to 90% relative humidity, non-condensing
Regulatory testing	FCC (Class A), IC (Class A), CE (Class A) FCC Part 15 Class A, CE Class A, ICES-003 Class A

Local Extender:

The local extender connects to the computer using a standard USB cable (included). Power for the local extender is provided by the Host PC. Power for the remote extender is provided by the 24V AC adapter connected at *either* the local or the remote extender. The local extender delivers power over the Cat 5 extension link to the remote extender when the included power supply is connected to the local extender.

- Link LED (green) on top of the housing: Indicates both the local and remote extenders have power and the Cat. 5 cable is connected properly.
- Power Port: The power port gives the option to connect power to either local or remote extender. Connect the supplied 24V, 1A power adapter to *either* the local or remote extender.
- Link Port (RJ45): accepts RJ45 connector for Cat. 5 cabling (or better)
- USB Type B connector: used to connect the local extender unit to the host computer

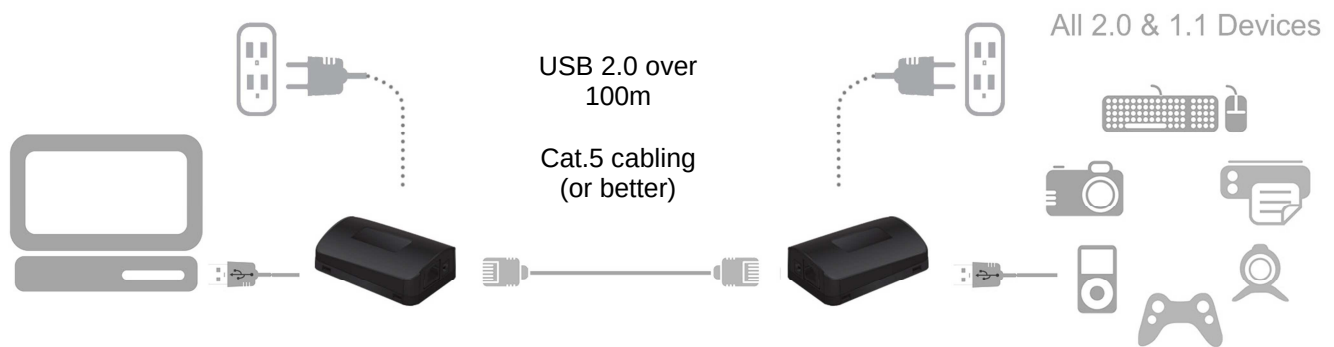
Remote Extender:

The remote extender provides a USB Type A port for connecting standard USB devices. It allows you to connect one USB device directly. Additional devices may be connected by attaching USB hubs to the remote extender. The remote extender is powered *either* directly by the included power supply or via the Cat. 5 link extension cable from the local extender. The USB port delivers 500mA of current to the attached USB device.

- Link LED (green) on top of the housing: Indicates both the local and remote extenders have power and the Cat. 5 cable is connected properly.
 - Power Port: The power port gives the option to connect power to either local or remote extender. Connect the supplied 24V, 1A power adapter to *either* the local or remote extender.
 - Link Port (RJ45): accepts RJ45 connector for Cat. 5 cabling (or better)
 - Device Port (USB Type A): accepts a USB device
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Installation

Connect the power adapter to *either* the local or remote extender:



Mounting the Local Extender or Remote Extender

If mounting is required, the local and remote extenders have two mounting slots on each side for use with tie/zip wraps (not included).



Installation

1. Place the local extender near the computer.
2. Install the supplied USB cable between the local extender and USB port on the host computer.
3. Place the remote extender near the USB device(s) in the desired remote location.
4. Connect the supplied power adapter to the local or remote extender, based on installation requirement. Use only the power adapter supplied with the LINDY USB 2.0 Extender Pro; use of substitute adapters may cause permanent damage to the system and will void the warranty. Never plug a power adapter to both local and remote extenders, as this may also cause permanent damage to the system.
5. Connect the local to the remote extender by using a Cat.5 (or better) cable (not included!). Data transfer rates depend on the quality and length of the cable. Best results for great distances are reached with Solid Core cabling.

Checking the installation

1. Check that the green Link LED is illuminated on the local and remote extender.
2. For Windows users (2000, XP, Vista, 7), open Device Manager to confirm that the LINDY USB Extender Pro has installed correctly. Expand the entry for Universal Serial Bus controllers. If the Extender has been installed correctly, you should find it listed as a "Generic USB Hub".
3. For Mac OS X users, open the System Profiler to confirm that the LINDY USB Extender Pro has installed correctly. In the left hand column under Hardware, select "USB" and inspect the right hand panel. If the Extender has been installed correctly, you should find it listed as a "Hub" under the USB High-Speed Bus/USB Bus.
4. If the LINDY USB Extender Pro is not detected correctly or fails to detect, please consult the Troubleshooting Guide.

Connecting a USB Device

1. Install any software required to operate the USB device(s). Refer to the documentation for the USB device(s), as required.
2. Connect the USB device to the device port on the remote extender.
3. Check that the device is detected and installed properly in the operating system.

Trouble Shooting

The following table provides troubleshooting tips. The topics are arranged in the order in which they should be executed in most situations. If you are unable to resolve the problem after following these instructions, please contact technical support for further assistance.

PROBLEM	CAUSE	SOLUTION
USB device is attached but not functioning.	• The USB device requires drivers that were not installed. • The USB device does not support USB hubs. • The USB device has malfunctioned.	1. Install the required USB device driver on the computer operating system prior to attaching the USB device into the remote extender. Please see your USB device manufacturer's website for details. 2. In the Universal Serial Bus controllers Device Manager, check that the USB section of device is enumerated. 3. Contact Technical Support for assistance.
USB device is attached but not functioning.	• Overcurrent condition has occurred because the USB device has drawn more current than can be supplied per USB specification (500mA). Operating systems may generate a status bubble indicating an issue.	1. Power cycle remote extender: Unplug the power adapter from the extender, wait approximately 30 seconds, plug the power adapter into the extender. 2. If overcurrent continues to occur, either: (a) the USB device may use more power than the USB specification, or (b) the USB device may be damaged. 3. Consult your USB device documentation and power your USB device with the required power supply.
Link LED on the local and remote extenders blink intermittently.	• The Cat.5 cable connecting the local and remote extender is faulty. • Firmware mismatch between the local and remote extenders.	1. Ensure that the Cat.5 cabling is of decent quality. 2. Use a different local and remote extender pair which have the same firmware revision. 3. Upgrade the local and remote extender firmware; contact Technical support for assistance.

PROBLEM	CAUSE	SOLUTION
Link LED on the local and remote extenders is off.	• The remote extender is not receiving power. • The local extender is not receiving power. • The link cable is malfunctioning. • The LINDY USB Extender Pro is malfunctioning.	1. Confirm Host PC is on and providing power to local extender. 2. Ensure the supplied AC power adapter is properly connected to the local extender or the remote extender. 3. Ensure the Cat 5 cabling between the local and remote extenders is properly installed or replace the link cable. 4. Check that the AC adapter is connected to a live source of electrical power. 5. Contact Technical Support for assistance.

CE/FCC & Recycling Information

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards EN55022/EN55024 and the further Standards cited therein. It must be used with shielded cables only. It has been manufactured under the scope of RoHS compliance.

CE Konformitätserklärung

Dieses Produkt entspricht den einschlägigen EMV Richtlinien der EU und darf nur zusammen mit abgeschirmten Kabeln verwendet werden.

Diese Geräte wurden unter Berücksichtigung der RoHS Vorgaben hergestellt.

Die formelle Konformitätserklärung können wir Ihnen auf Anforderung zur Verfügung stellen

LINDY Herstellergarantie - Hinweis für Kunden in Deutschland

LINDY gewährt für dieses Produkt über die gesetzliche Regelung in Deutschland hinaus eine zweijährige Herstellergarantie ab Kaufdatum. Die detaillierten Bedingungen dieser Garantie finden Sie auf der LINDY Website aufgelistet bei den AGBs.

FCC Certification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Germany / Deutschland

Die Europäische Union hat mit der WEEE Richtlinie Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden im Elektro- und Elektronikgerätegesetz - ElektroG in deutsches Recht umgesetzt. Dieses Gesetz verbietet das Entsorgen von entsprechenden, auch alten, Elektro- und Elektronikgeräten über die Hausmülltonne! Diese Geräte müssen den lokalen Sammelsystemen bzw. örtlichen Sammelstellen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernimmt die Gesamtheit der Gerätehersteller.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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