

LINDY USB Extender

User Manual
Benutzerhandbuch
Manuel Utilisateur
Manuale d'uso

English
Deutsch
Français
Italiano



USB Extender
Local Unit
(Computer side)

Cat.5 extension
cable 5...50m
not included

USB Extender
Remote Unit
(Device side)



LINDY No. 42801

www.LINDY.com

For Home and Office Use
Tested to Comply with FCC Standards



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English Manual

Introduction

The LINDY **USB EXTENDER** can be used to extend the distance between a USB device and a host computer by **up to 50m / 150 feet**. It consists of a local unit with USB Type A connector (host computer side) and a remote unit (device side with built in USB type A female connector). Standard Category 5 Network cable (UTP or STP) up to 50m length (150 feet) is used to connect the two units. For certain USB Low Speed devices like USB mice it may be possible to extend the distance even further up to 100m. This will depend very much on the device connected, as this extended distance may not be guaranteed. In most cases USB 1.1 Full Speed data transfer (12Mbps) will not work over extended distances but is guaranteed to work up to 50m (150 feet).

Specification

USB INTERFACE:	USB 1.1 type operation
Interconnect UTP/STP cable length up to 50m / 150 feet	
Equivalent Hub Delay/Count:	20m / 60 feet 2 Hubs
	30m / 100 feet 3 Hubs
	50m / 150 feet 5 Hubs

Please note! The maximum number of hubs in any USB connection from host to device cannot be more than 5 including any USB Hubs or Active Extension cables or the equivalent Hub rating of this **USB EXTENDER!**
Therefore when using a 50m UTP/STP cable no extra hubs or extension cables can be used between computer and device!

Please note! When using a high current USB device such as a modem, camera etc with the **USB EXTENDER** you must connect the power supply supplied with the device!

Please note! The USB Extender does not support the USB 50uA maximum Suspend Mode current limit.

Technical Data

Supply Current Drawn:	20~40mA
Operating Temperature:	0~40°C
Storage Temperature	-40~85°C

Caution!

This unit does not fully meet all USB Specifications and as such does not register with the USB bus. It is capable of extending the maximum distance of 5m imposed by USB by one USB segment only. Please consider these limitations otherwise the USB bus may not function correctly! It should also be connected to an exclusive USB port on your computer.

Deutsches Benutzerhandbuch

Einführung

Der LINDY **USB-EXTENDER** wird verwendet um Distanzen zwischen Computer und USB Geräten **auf bis zu 50m** zu erweitern. Er besteht aus einer lokalen Einheit (mit USB-Kabel mit Typ A Stecker, Computerseite) und einer Remote-Einheit (Device-Seite mit eingebaute USB Typ A Buchse). Zur Verbindung werden Standard-Netzwerkkabel bis zu 50m Länge (Kategorie 5 oder höher) verwendet. Für einige Low Speed USB Geräte wie Mäuse können auch Distanzen bis 100m überbrückt werden, LINDY übernimmt jedoch keinerlei Verantwortung für das Funktionieren bei Distanzen oberhalb von 50m. USB 1.1 Full Speed Datentransfer mit 12Mbps wird oberhalb von 50m höchstwahrscheinlich nicht korrekt funktionieren.

Spezifikation

USB INTERFACE:	Typ USB 1.1 Funktion
Kabellänge für Netzwerkkabel (UTP/STP Cat.5) bis 50m	
Äquivalenz-Hub-Signalverzögerung :	20m 2 Hubs
(Entspricht einer Anzahl von Hubs)	30m 3 Hubs
	50m 5 Hubs

Achtung 1: Die Maximale Anzahl von Hubs in USB-Bussen vom Computer bis zum letzten Device darf 5 nicht überschreiten! Einschließlich anderer Hubs oder Aktivverlängerungen und der Äquivalenz-Hub-Anzahl dieses Extenders nach Distanz (siehe oben)! **Bei Einsatz eines 50m Verbindungskabel darf daher kein weiterer Hub zwischen Computer und USB Device verwendet werden!**

Achtung 2: USB High Current Devices wie USB-Modem etc. müssen immer mit eigenem Netzteile verwendet werden!

Achtung 3: Dieser USB Extender unterstützt nicht das USB 50uA Suspend-Mode Stromlimit.

Technische Daten

Typischer Stromverbrauch:	20~40mA
Zulässiger Temperaturbereich für Betrieb:	0~40°C
Zulässiger Temperaturbereich für Lagerung:	-40~85°C

! WARNUNG !

Dieser USB Extender erfüllt nicht alle USB Spezifikationen. Daher kann er auch die maximale USB-Segmentlänge von 5m überschreiten! Er registriert sich nicht im USB Bus beim Host. Alle oben genannten Punkte müssen durch den Nutzer selbst beachtet werden. Bei Überschreitung der Angaben kann das Funktionieren nicht garantiert werden. Bei Verwendung von 50m Verbindungskabel darf kein weiteres Device zwischen Computer und Endgerät eingesetzt werden!

Shielded cables must be used with this equipment to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

FCC Warning

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. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced technician for help

You are cautioned that changes or modifications 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



LINDY No. 42801

Introduction

L' **USB EXTENDER** peut être utilisé pour étendre la distance entre un ordinateur et un périphérique USB jusqu'à 50 mètres. Cela consiste en une unité locale avec connecteur USB Type A (côté ordinateur) et une unité distante (côté périphérique) avec connecteur USB type A femelle intégré. Un câble Cat. 5 STP standard est utilisé pour connecter les deux boîtiers. Pour certains périphériques USB bas débit, il est possible d'étendre la longueur de connexion à 100m maximum. Ceci n'est tout de même pas garanti.

Spécifications

INTERFACE USB: Type USB 1.1
Interconnexion par câble UTP/STP jusqu'à 50m
Equivalent avec connexion de Hubs:

20m	2 Hubs
30m	3 Hubs
50m	5 Hubs

Remarque Importante 1: Le nombre maximum de hubs pour une connexion ne doit pas dépasser 5 hubs ! Si vous utilisez un câble de 50m UTP/STP vous n'aurez pas besoin de connecter de hubs supplémentaires!

Remarque Importante 2: Si vous utilisez un périphérique consommant beaucoup de puissance, comme des modems, etc..., vous devez obligatoirement utiliser l'alimentation fournie avec ce périphérique!

Remarque Importante 3: Cette extension USB ne supporte pas le mode suspend 50µA.

Données Techniques

Consommation:	20~40mA
Température d'utilisation:	0~40°C
Température de stockage	-40~85°C

! ATTENTION !

Cet appareil ne répond pas à toutes les spécifications USB. Il permet d'étendre la longueur maximale de 5m de la norme USB pour un segment.
Il se peut que le port USB ne fonctionne pas correctement si vous connectez plusieurs périphériques en supplément de l'extension.

Introduzione

Il **Lindy USB EXTENDER** permette di utilizzare periferiche USB fino a 50 m di distanza dal computer. Questo sistema è composto da un'unità locale con un connettore USB tipo A (lato del computer Host) ed un'unità remota con connettore USB tipo A femmina (lato periferica). Per connettore questo due unità si utilizza un cavo per reti locali standard Cat. 5 (UTP o STP) lungo fino a 50 m. Per alcune periferiche USB a bassa velocità come i mouse è possibile raggiungere una distanza fino a 100m ma questa caratteristica non può essere garantita.

Specifiche:

INTERFACCIA USB: USB 1.1
Lunghezza cavo UTP/STP di interconnessione fino a 50m
Numero di Hub/Ritardo Equivalente: 20m -> 2 Hub
30m -> 3 Hub
50m -> 5 Hub

Raccomandazioni:

1: Il numero massimo di Hub in una connessione USB dal PC alla periferica non può essere superiore a 5 inclusi qualsiasi Hub USB, prolunga attiva o il numero di Hub equivalenti di questo USB Extender!
Di conseguenza usando un cavo UTP/STP da 50 non si potranno utilizzare altri Hub USB o prolunghe attive fra il PC e la periferica.

2: Se utilizzato periferica USB ad alto assorbimento di corrente (Modem, Drive Esterni, ecc..) con questo Extender ricordatevi di collegare sempre l'alimentatore fornito in dotazione

Caution 3: Questo extender non supporta il sistema di sospensione automatica con limite a 50uA.

Dati Tecnici

Corrente assorbita:	20~40mA
Temperatura di funzionamento:	0~40°C
Temperatura di conservazione	-40~85°C

! ATTENZIONE !

Questa unità non rispetta completamente le specifiche USB per cui esso può estendere oltre i 5m imposti dalla specifica solo un segmento USB. Non verrà inoltre registrato nel BUS USB. L'utente deve tener conto di tutte le raccomandazioni precedentemente descritte; in caso contrario il BUS USB potrebbe non funzionare correttamente. Questa periferica dovrebbe essere connessa direttamente ad una porta USB