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XTENDEX® Series

USB3-2FOLC-4

4-Port USB 3.0 Extender via Two LC Fiber Optic Cables
Installation and Operation Manual

Local Unit **Remote Unit**

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INTRODUCTION

The XTENDEX® 4-Port USB 3.0 Extender via Fiber Optic Cable extends four USB devices up to 820 feet (250 meters) using a duplex LC 9-micron singlemode or 50-micron multimode fiber optic cable. Each extender consists of a local unit that connects to a computer, and a remote unit that connects to four USB 3.0/2.0/1.1 devices. The local and remote units are interconnected via a two-strand LC 9-micron singlemode or 50-micron multimode fiber optic cable.

Features

- Supports fully transparent USB connection - USB Windows computers (Windows 7/8/8.1/10) and their associated peripherals.
- Extend self-powered and/or bus-powered USB peripheral devices (security cameras, printers, scanners, touch screen monitors, game controllers, flash drives, keyboards, mice, etc.).
- Signal transmission up to 820 feet (250 meters) via a two-strand LC 9-micron singlemode or 50-micron multimode fiber optic cable.
- Supports super-speed (5 Gbps), high-speed (480 Mbps), full-speed (12 Mbps), or low-speed (1.5 Mbps) USB devices.
- Compliant with USB 3.0 specifications.
    - Backwards compatible with USB 2.0/1.1.
- Each port supports full 900mA current.
- Supports Plug-n-Play specification.
- Low RFI/EMI for sensitive applications.
- No drivers required.
- Compact design for the transmitter - allows for direct connection to the host.
- Integrated mounting brackets on the receiver for easy surface/wall mounting.
- Cables can be installed in conduit prior to extender installation.

Local Unit

- One male USB Type A connector.
- Two female LC fiber optic ports.
- Supports a USB computer (PC only).
- Supports Windows 7/8/8.1/10.

Remote Unit

- Four female USB Type A connectors.
- Two female LC fiber optic ports.
- Supports super-speed (5 Gbps), high-speed (480 Mbps), full-speed (12 Mbps), or low-speed (1.5 Mbps) USB devices.
- Supports self-powered and/or bus-powered USB devices.
- Compatible with USB touch screen monitors.

MATERIALS

Materials supplied with this kit:

- NTI USB3-2FOLC-4 Transmitter (Local Unit) and Receiver (Remote Unit)
- 100-240VAC, 50 or 60Hz-12VDC/3A AC Adapter
- URL Slip with web address of this manual

Materials *Not* supplied but *REQUIRED:*

Up to 820 Feet (250m) duplex LC 9-micron singlemode or 50-micron multimode fiber optic cable

Also available (purchased separately for connecting USB devices to the Remote Unit):

USB3-AA-xx-3-MM-L SuperSpeed USB 3.0 Cable, male-to-male (xx=3,6 or 10 ft)

USB3-AC-1M-K 1 Meter SuperSpeed+ USB 3.1 Cable, male A-to-male C

Cables can be purchased from Network Technologies Inc by calling ***(800) 742-8324*** *(800-RGB-TECH) in the US and Canada or* ***(330) 562-7070*** *(worldwide).*

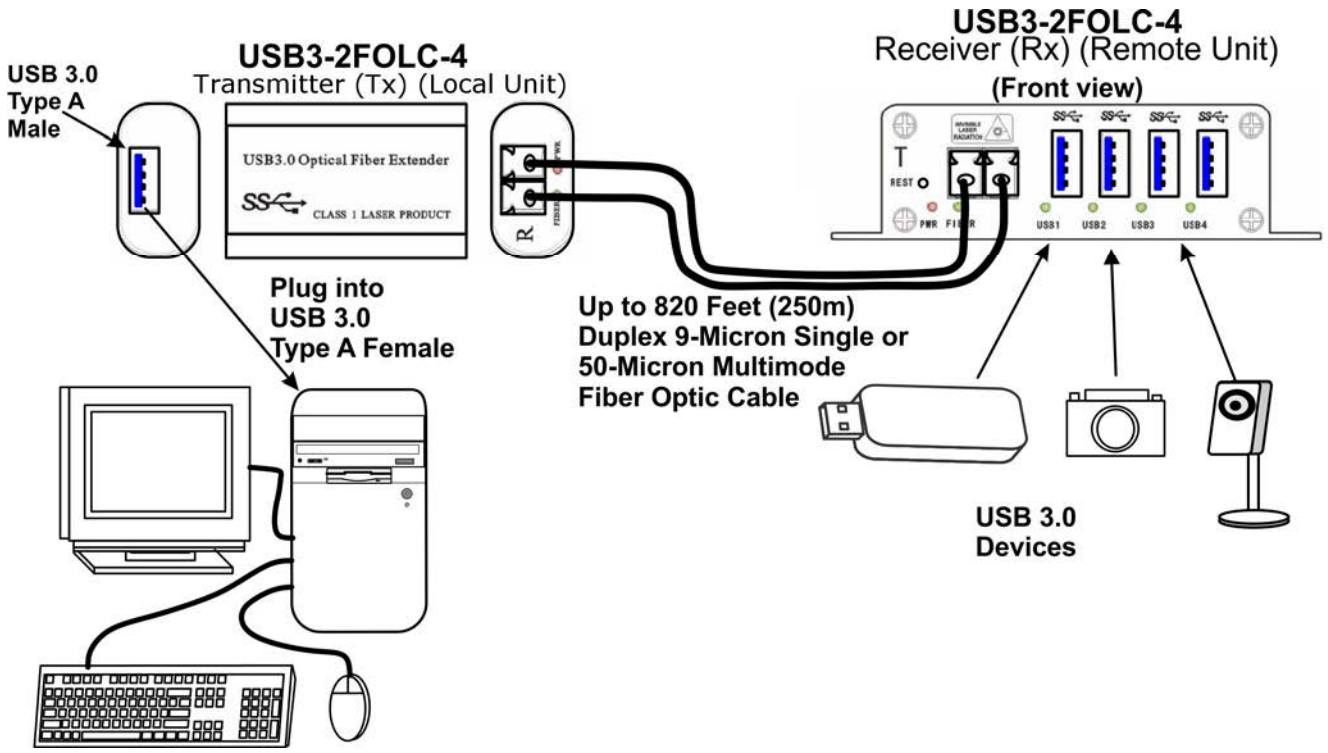
PREPARATION FOR INSTALLATION

- Locations should be chosen for the USB devices and host that also have space to connect the Transmitter and Receiver units within the distance provided by the fiber optic and USB cables.

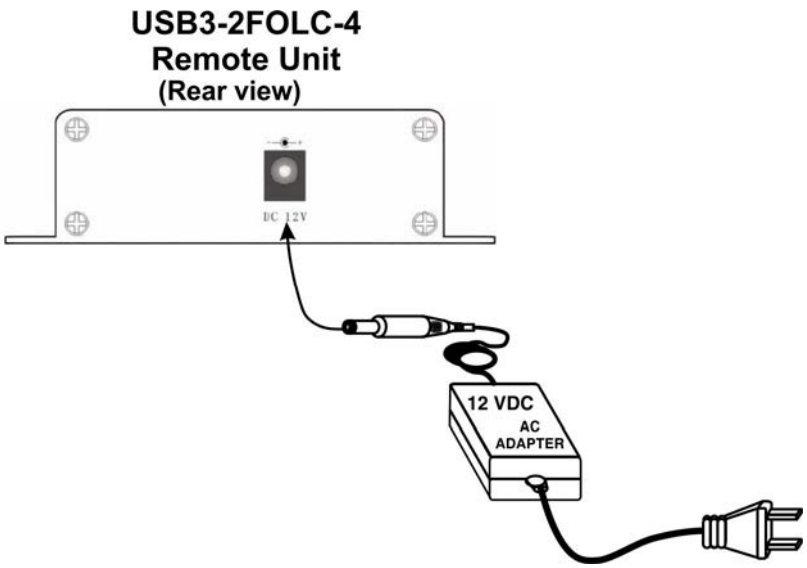
- All cables should be installed in such a way that they do not cause stress on their connections to the equipment. Extended lengths of cable hanging from a connection may interfere with the quality of that connection. Secure cables as needed to minimize this.

INSTALLATION

1. Connect the Local Unit directly into the PC. For best performance, make sure the USB port on the PC supports USB 3.0.
2. Connect the devices to be extended to the Remote Unit.

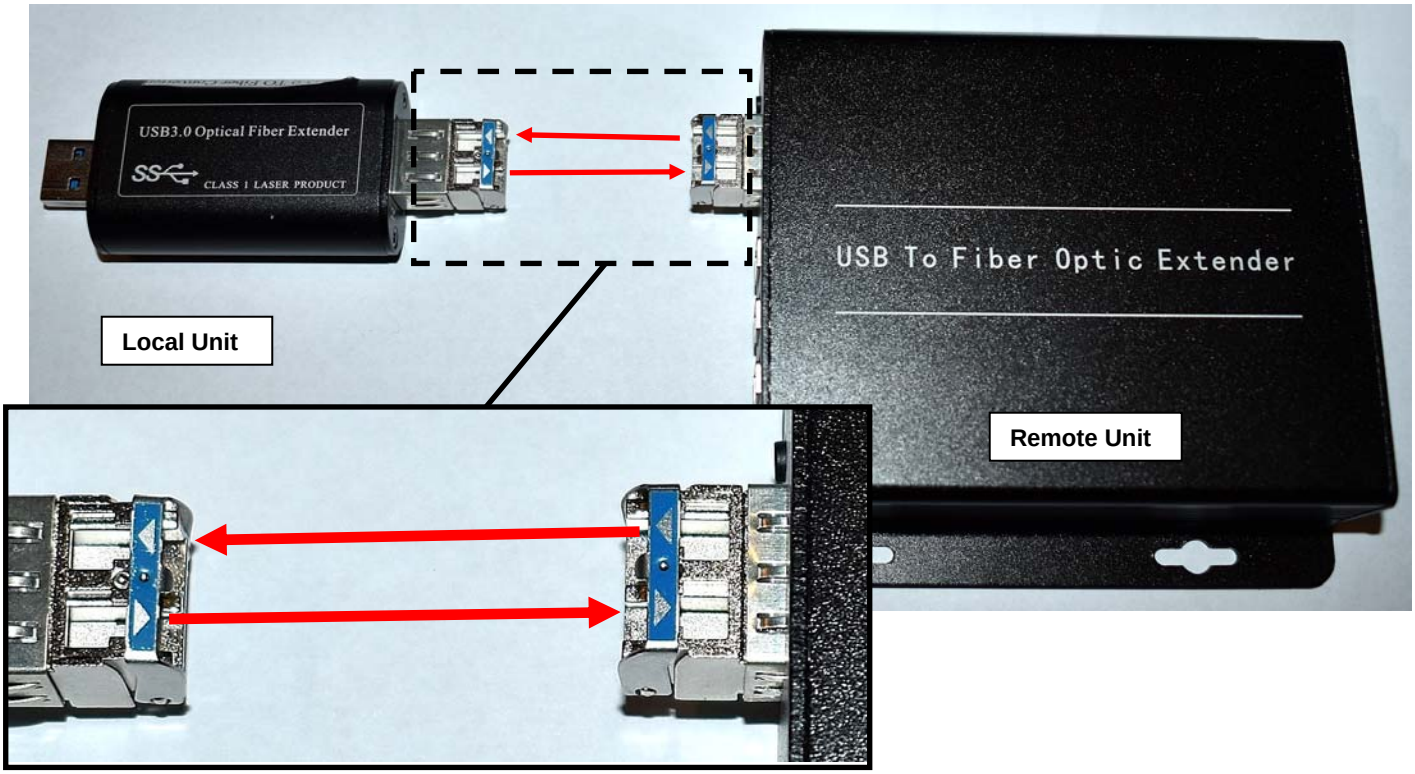


3. Connect the 12VDC power supply to the Remote Unit.

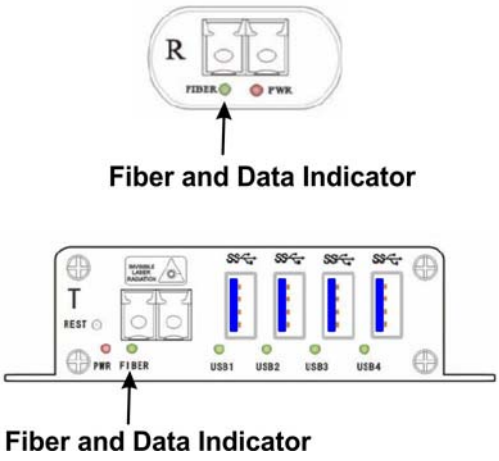


4. Connect up to 820 Feet (250m) duplex LC 9-micron singlemode or 50-micron multimode fiber optic cable between the Local and Remote units. Make certain all connections are fully inserted.

Note: If using individual LC fiber optic cables, be sure to connect each end to the proper port on the Local and Remote units. (See image below)



After the fiber optic cable has been connected, the Fiber and Data indicator will illuminate.



The USB indicator associated with each port that has a USB device inserted will illuminate. The USB devices should now operate as if they were directly connected to the PC.

TROUBLESHOOTING

If the host PC does not recognize the Local Unit, the following procedures can be tried:

Note: Make sure all cables are connected securely at both ends.

1. Press and hold the "REST" button on the Remote Unit for 5 seconds. Then release.

2. Power cycle the Remote Unit.

3. Connect the Local Units to a different USB 3.0 port on the PC (the port should be blue).

4. Locate the "USB3.0 hub" in the PC operating systems device manager and uninstall it,
   Unplug the Local unit from the PC,
   Reconnect the Local unit to the PC.

TECHNICAL SPECIFICATIONS

Local Unit	
Connectors	One USB 3.0 Type A male Two female LC fiber optic ports
PC Types supported	Windows
Operating Systems supported	Windows 7/8/8.1/10
Remote Unit	
Connectors	Four USB 3.0 Type A female Two female LC fiber optic ports
USB Devices Supported	super-speed (5 Gbps), high-speed (480 Mbps), full-speed (12 Mbps), or low-speed (1.5 Mbps) USB devices; self-powered and/or bus-powered USB devices ; USB touch screen monitors
General	
Dimensions **(WxDxH)**	Local Unit: 1.29x3.38x0.71 in (33x86x18 mm) Remote Unit: 4.09x4.09x1.10 in (104x104x28 mm)
Power	Local Unit: powered from attached computer Remote Unit: 100 to 240 VAC at 50 or 60 Hz- 12VDC/3A AC adapter
Operating temperature	32 to 122°F (0 to 50°C)
Storage temperature	-40 to 185°F (-40 to 85°C)
Operating/storage relative humidity	Operating/storage relative humidity: 0 to 95% non-condensing RH
Maximum distance	820 feet (250 meters) over a duplex LC 9-micron singlemode or 50-micron multimode (OM2/OM3) fiber optic cable
Cable type	Use a duplex LC 9µm singlemode or 50µm multimode (OM2/OM3) fiber optic cable to extend the receiver from the transmitter up to 820 feet (250 meters). (Cables not included.)
Regulatory Approvals	RoHS

WARRANTY INFORMATION

The warranty period on this product (parts and labor) is two (2) years from the date of purchase. Please contact Network Technologies Inc at **(800) 742-8324** (800-RGB-TECH) or **(330) 562-7070** or visit our website at http://www.networktechinc.com for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

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