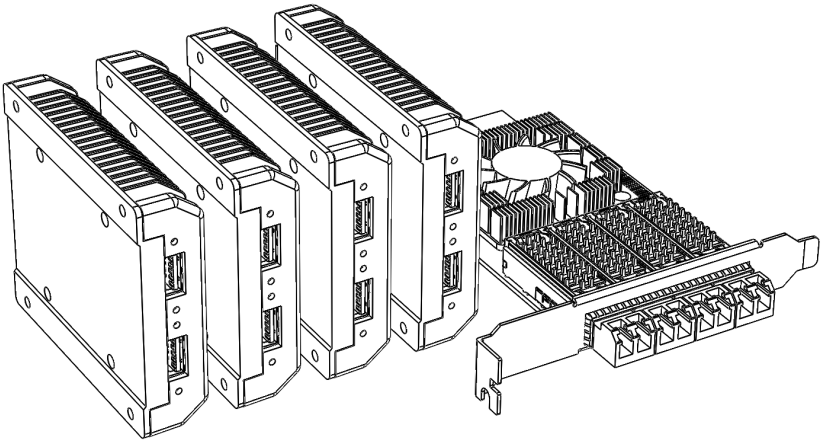

Quick Start Guide

FireNEX™-80G

80Gbps Max. Data Rate

Expandable USB Extension System



Newnex
Connecting with Confidence™

Introduction



Thank you for purchasing FireNEX™-80G, an innovative USB extension system for USB 3.2/2.0/1.1 devices and Newnex's latest addition to its line of optical repeaters. This manual contains specifications of the package contents, a step-by-step installation guide, as well as our return policy, warranty, and where to find technical support.

Please read through this manual carefully before using the product. We highly recommend you to keep this handy.

Package Contents



PN	In The Box	Configuration
FX80G-x1	1x Quick Start Guide 1x Local Unit 1x Standard PCIe Bracket 1x Low Profile PCIe Bracket	1x Remote Unit 1x 5V DC Power Supply
FX80G-x2	1x Quick Start Guide 1x Local Unit 1x Standard PCIe Bracket 1x Low Profile PCIe Bracket	2x Remote Unit 2x 5V DC Power Supply
FX80G-x3	1x Quick Start Guide 1x Local Unit 1x Standard PCIe Bracket 1x Low Profile PCIe Bracket	3x Remote Unit 3x 5V DC Power Supply
FX80G-x4	1x Quick Start Guide 1x Local Unit 1x Standard PCIe Bracket 1x Low Profile PCIe Bracket	4x Remote Unit 4x 5V DC Power Supply

Features



- Extends USB 3.2/2.0/1.1 up to 700 meters over single-mode fiber cables
- Up to 4 Remote Units in simultaneous operation, each Remote Unit supporting 20Gbps total bandwidth
- Up to 2 USB 3.2 Gen 2 10Gbps Devices on each Remote Unit in simultaneous operation, allowing for a total of 8 connected devices
- USB 2.0/1.1 backwards compatible, universal support for low speed USB devices such as keyboard and mouse
- PCI-e standard and low profile brackets included to adapt for both regular and server PC chassis
- Metal enclosure for better protection from EMI and hazards from industrial environment
- Surface mounting holes ready for a secured installation
- USB3 Vision compliant screw locking ports for reliable cable interconnections
- Windows and Linux OS supported

Data Rate	Extension Range
USB 10Gbps	300 meters
USB 5Gbps	700 meters



⚠ WARNING

- a. **This product is sensitive to electrostatic discharges.** Use an electrostatic wrist strap and/or conductive mat when executing the steps below.
- b. **Do not install or remove the Local PCIe card while the host PC is on.** Always completely shut down the PC before switching the unit to other PCIe slots.

1 Prepare the Host Computer

- a. Make sure the PCIe clock frequency is not overclocked and set it to the default or 100Mhz in the BIOS
- b. Disable PCIe Link State Power Management in Windows → advanced power settings

2 Install the PCIe Local Unit

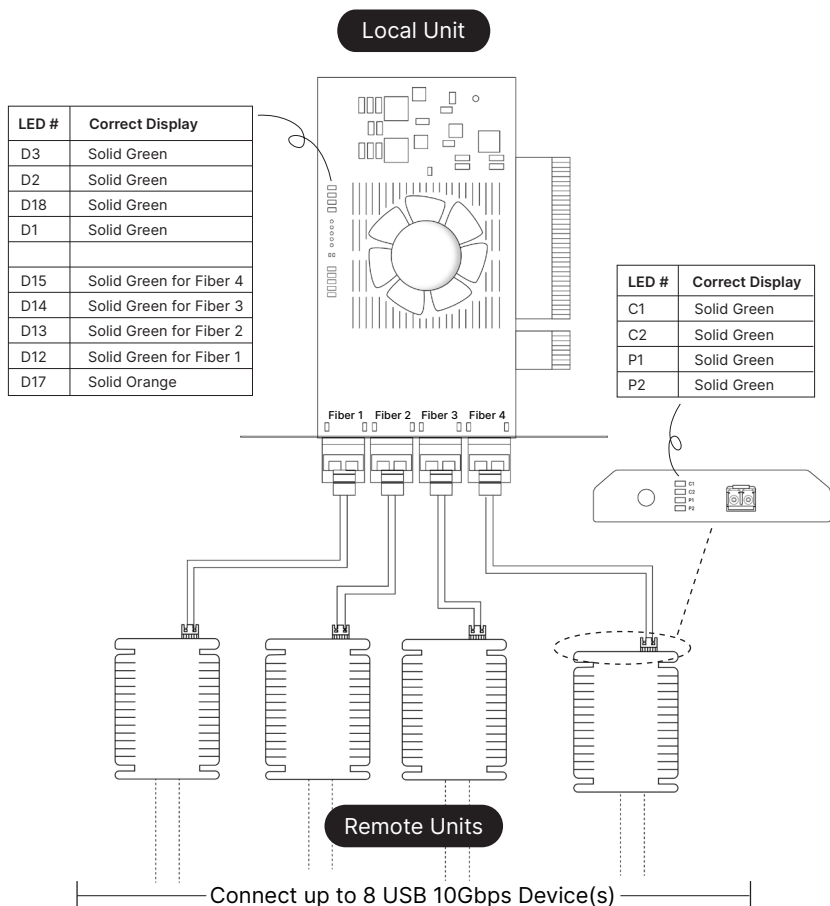
- a. Power off the host PC and open up the computer chassis
- b. Locate a PCIe slot on the motherboard that fits a PCIe x8 card
- c. Install the appropriate height PCIe bracket included that fits your chassis
- d. Gently push the Local Unit into the desired PCIe slot and secure the card with chassis screws

3 Install the Remote Unit(s)

- a. Place the Local Unit near the USB devices to be extended
- b. Connect the DC power adapter
- c. Connect the desired length OS2 single mode duplex LC fiber cable from the Host Unit to the Remote Unit
- d. Repeat steps from 3a to 3c if installing multiple Remote Units

4 Turn on system for the first time

- a. Power on the computer and verify the following LEDs on both the Local and Remote Units
- b. All drivers should be automatically installed with Windows and Linux OS
- c. Repeat steps from 1a to 5a if switching the PCIe slot or fiber cable



5 Connect USB Devices to the Remote Unit(s)

- a. Install driver/software required for the USB devices
- b. The connected USB devices can be hot plug and play

IMPORTANT NOTES:

- After the initial setup is complete, any disconnection of the fiber cable or the power cord to the remote unit will require rebooting the host PC.
- Always ensure the remote unit is powered on prior to turning on the PC.

Technical Support



Please visit our product page for additional information:

www.newnex.com/usb-3-2-gen2-80g-extender.php

For more support, submit a RMA or support inquiry at:

www.newnex.com/tech-support

Return & Warranty



FireNEX™-80G comes with a **one-year limited manufacturer warranty** from the initial invoice date.

Visit www.newnex.com/return-policy for more information and the return policy.

Contact Us:

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