

# FireNEX800™ User's Manual



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## 1.0 Introduction

Congratulations on your purchase of the Newnex FireNEX800™ Optical Repeater. The Newnex FireNEX800™ Optical Repeater is the newest in IEEE1394 technology. The FireNEX800™ is capable of sending IEEE1394 signals across a fiber optic cable at a distance of 500 meters up to 800 Mbps.

## 2.0 Package Contents

- Two FireNEX800™ repeaters
  - One AC/DC adapter<sup>1</sup>
  - One user's manual
- \* Fiber optic cable and IEEE1394 copper cable (FireWire) could be ordered separately from Newnex Technology Corp.

## 3.0 System Requirements

- PC or Mac with IEEE1394 port or host controller card installed
- Windows 98 SE or later, Mac OS 9 or later, and current Linux distribution

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<sup>1</sup>The power adapter provided by Newnex is UL certified. For countries that need certifications for power other than UL, please purchase the similar power adapter with the special power certification from the local stores.

### **Do I have to use two FireNEX800™ repeaters to make it work?**

Yes, a pair of FireNEX800™ is needed for the fiber extension. Both FireNEX800™ units can act as either the transceiver or the receiver.

### **Which FireNEX800™ connects to the host system and which FireNEX800™ connects to the devices?**

The host system and the devices can be connected to either FireNEX800™ unit.

### **Is there a driver for the FireNEX800™ ?**

No, operating systems such as Windows 98 SE, Mac OS 9, and later versions already come with IEEE1394 support.

5. Connect the IEEE1394 device to the second FireNEX800™ with a IEEE1394b copper cable (not included)

6. Operate the IEEE1394 device just like it is directly conneted to the host system

The FireNEX800™ should be stored in a dry place with air-flow. Do not place the FireNEX800™ on equipment that produce heat.

## 7.0 Frequently Asked Questions

### **What is the length that the FireNEX800™ can support?**

The FireNEX800™ will support a length of 500 meters with Multi Mode Fiber cable (MMF) with 50/125 μm or 62.5/125 μm. The FireNEX800™ has a single mode version (FireNEX800-SX™), which can reach a longer distance with a single mode fiber (SMF) cable.


### **What is the maximum speed of the FireNEX800™?**

The FireNEX800™ can support up to the maximum speed of 800 Mbps. The FireNEX800™ can also operate at lower speeds, such as 400 Mbps, 200 Mbps, and 100 Mbps.

### **Can the FireNEX800™ itself be a FireWire repeater?**

Yes, the FireNEX800™ can be used as a two-port FireWire repeater alone, repeating through the two copper ports.

## 4.0 Specifications

- Dimensions: 80 x 68 x 27 mm
- Weight: 190g
- Power Input: 12V Recommended
- Power Consumption: 3W @ 12V
- Power Adapter: AC Input 100V ~ 240VAC, 50/60Hz   
DC Output 12V, 1A
- Temperature Range: -45°C to +75°C (-49°F to 167°F)

## 5.0 Features

- Compliant with both IEEE1394b and IEEE1394a specifications
- Data transfer rate at 100/200/400/800 Mbps
- Reach to 500 meters using Multi Mode fiber cable (MMF) with 50/125 μm or 62.5/125 μm
- Two 9-pin IEEE1394b bilingual copper ports
- One standard LC optical port
- FCC and CE certified
- RoHS compliant
- Passed MIL-STD-883, low temperature cycling test (-45°C to +75°C) for harsh environment applications

## 6.0 Using the FireNEX800™

It is important to follow the installation procedure for your FireNEX800™:

1. Connect the the two FireNEX800™ repeaters together using 62.5/125  $\mu\text{m}$  or 50/125  $\mu\text{m}$  MMF fiber cable with LC connector on each end



2. Power up the two FireNEX800™ repeaters with the power adapters that come with the package

3. Make sure that all three LEDs on each FireNEX800™ repeater illuminate a **solid green light**. (If you do not see a solid green light for each LED after several attempts to make power connections to the repeaters, please either call (408) 986-9988 or email [support@newnex.com](mailto:support@newnex.com) for assistance)

- Power LED - Illuminates when the FireNEX800™ is powered
- Active LED - Illuminates when any one of the three ports, including two copper ports and one optical port, is active
- Laser LED - Illuminates after the fiber optic cable connects two powered FireNEX800™ repeaters, indicating that the fiber ports are working



4. Connect one FireNEX800™ to the host system with a IEEE1394b 9-pin copper cable (not included)

